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Industry Wage Survey: Appliance Repair, November 1981



U.S. Department of Labor
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Industry Wage Survey: Appliance Repair, November 1981



U.S. Department of Labor
Raymond J. Donovan, Secretary

Bureau of Labor Statistics
Janet L. Norwood, Commissioner
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Preface

This bulletin summarizes the results of a Bureau of Labor Statistics survey of wages and employee benefits in electrical appliance repair shops in November 1981. Separate summaries for the 19 major metropolitan areas included in the survey were issued during the spring of 1982. (See table 1 for a list of areas studied.) Copies of these summaries are available from the Bureau of Labor Statistics, Washington, D.C., 20212, or any of its regional offices.

The study was conducted in the Bureau's Office of Wages and Industrial Relations. Harry B. Williams of the Division of Occupational Pay and Employee Bene-

fit Levels analyzed the survey data and prepared this bulletin. Fieldwork for the survey was directed by the Bureau's Assistant Regional Commissioners for Operations.

Other reports currently available from the Bureau's program of industry wage studies, as well as the addresses of the Bureau's regional offices, are listed at the end of this bulletin.

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Contents

	<i>Page</i>
Earnings and benefits	1
Industry characteristics	2
Tables:	
1. Employment by selected characteristics	4
Occupational averages:	
2. Northeast	5
3. South	7
4. North Central	9
5. West	11
Earnings distributions:	
6. Television-radio technicians—full time	12
7. Electrical appliance technicians—full time	13
8. Television-radio apprentice technicians	14
9. Electrical appliance apprentice technicians	15
Establishment practices and supplementary wage provisions:	
10. Method of wage payment	16
11. Minimum entrance rates: Television-radio technicians	17
12. Minimum entrance rates: Electrical appliance technicians	18
13. Scheduled weekly hours	19
14. Paid holidays	19
15. Paid vacations	20
16. Health, insurance, and retirement plans	23
17. Other selected benefits	24
Appendixes:	
A. Scope and method of survey	25
B. Occupational descriptions	28

Appliance Repair, November 1981

Earnings and benefits

In November 1981, technicians repairing major consumer electrical products in the 19 metropolitan areas surveyed had average earnings ranging from \$7.93 an hour in Buffalo to \$10.43 in San Francisco-Oakland.¹ These technicians worked in appliance repair facilities operated by electrical repair shops, department stores, retail television and radio stores, appliance retailers, and appliance wholesalers.

About two-thirds of the technicians specialized in repairing either television sets, radios, and tape players (brown goods) or larger household appliances such as refrigerators, freezers, and washers (white goods); their average earnings in individual areas typically were between \$7 and \$9 an hour. Approximately 4,350 technicians—called “service technicians” in this report—routinely worked on both brown and white goods during the survey period and could not be classified as either television-radio or electrical appliance technicians. Because of their dual skills, service technicians usually averaged more per hour than television-radio or electrical appliance technicians. However, only in Newark did separate data for these service technicians meet Bureau publication criteria.²

Among the 19 areas surveyed, the highest averages for full-time technicians were reported in San Francisco-Oakland (\$9.87 for TV-radio workers and \$9.72 for electrical appliance workers). Lowest averages were found in Memphis (\$6.65 for TV-radio technicians and \$6.12 for electrical appliance technicians). Averages for part-time workers in the same occupations most frequently were between \$5.75 an hour and \$8.75 an hour.

¹ Earnings data in this report exclude premium pay for overtime and for work on weekends, holidays, and late shifts, as well as commissions paid on sales of maintenance contracts, parts, or appliances. Premiums paid for licenses held by employees, if any, are included.

See appendix A for the scope and method of the survey and for definitions of areas studied and terms used in this bulletin. Appendix B contains occupational descriptions used in the survey.

For an account of an earlier Bureau study, see *Industry Wage Survey: Appliance Repair, November 1978*, Bulletin 2067 (Bureau of Labor Statistics, 1981). Because of the differences in the treatment of service technicians, comparisons of data in the 1978 and current report are not indicative of earnings changes over the 3-year period.

² In Newark, 208 full-time service technicians employed in combination (inside and outside) work averaged \$10.31 an hour.

Area earnings averages for apprentice technicians working under the direction of a qualified technician or other supervisor commonly were between \$4.30 and \$7 an hour at the time of the survey (tables 2-3 and 8-9). Averages for electrical appliance apprentices ranged from \$4.43 an hour in St. Louis to \$7.95 an hour in Chicago, among the 10 areas where data were publishable. Hourly earnings of TV-radio apprentices averaged from \$4.01 in Memphis to \$7.66 in San Francisco-Oakland, and were higher than those for their electrical appliance counterparts in 6 of 8 areas permitting comparison. Apprentices often earned about 30 to 50 percent less than qualified technicians in the same field.

In 13 areas, electrical appliance technicians had higher average hourly earnings than their TV-radio counterparts. The earnings advantage for white goods repairers was typically between 2 and 10 percent. Their pay differentials were partially explained by three factors: Industry, union status, and size of repair facility (table 1). For example, nearly one-third of the electrical appliance technicians worked in department stores or for appliance wholesalers—the two highest paying industry branches. Such establishments employed slightly more than one-tenth of the television-radio technicians. Also, union contracts covered slightly more than one-third of the white goods technicians and apprentices compared with one-fourth of those servicing brown goods. In nearly all areas studied, technicians in shops with union contracts averaged more per hour than their nonunion counterparts. Additionally, four-fifths of the white goods workers, compared with slightly over two-fifths of their brown goods counterparts, were in establishments with at least 10 repairers. Technicians in shops with at least 10 repairers usually averaged more than those in shops with fewer than 10 repairers. However, when comparisons were limited to establishments employing both types of technicians (about 13 percent of the establishments studied), brown-goods technicians commonly received as much as or more than white-goods technicians.

Separate earnings data were developed for three categories of technician jobs—inside (bench), outside (home service calls), and a combination of the two. Full-time TV-radio technicians in an area doing home service

calls typically averaged less than their counterparts on either inside or combination work. (There were too few comparisons possible for electrical appliance technicians to observe an earnings pattern.)

About three-fifths of the workers covered by the survey were in facilities with formal provisions for paying commissions on the sale of maintenance contracts, parts, or appliances (table 17). Commissions for the sale of maintenance contracts were the most frequent; those for the sale of appliances were least common. The proportion of workers in establishments having commission provisions varied by area, and by item within areas. For example, slightly over half of the workers in Washington were eligible for commissions on the sale of maintenance contracts while slightly over one-sixth were in shops with similar provisions for the sale of appliances. In San Francisco, half of the workers were in facilities that provided commissions on the sale of maintenance contracts and nearly one-fifth could receive commissions on the sale of parts.

The basic earnings data in this report exclude commissions for selling maintenance contracts, parts, and appliances. In the 19 areas combined, 14 percent of the electrical appliance technicians, 7 percent of the TV-radio technicians, and 3 percent of the apprentice technicians received commissions during the payroll period. Technicians and apprentices who received commissions averaged less than 5 percent above straight-salary personnel in virtually all areas.

Paid holidays, most frequently 6, 10, or 11 days annually, were provided by establishments employing more than seven-eighths of the full-time technicians and apprentices in each of the 19 areas studied (table 14). However, provisions varied widely among and within areas. In five areas (Atlanta, Boston, Chicago, Nassau-Suffolk, and Newark), for example, at least two-thirds of the repairers received 10 holidays or more annually, compared with only one-fifth in Denver-Boulder. In Kansas City, holiday provisions spanned a broad range with equal proportions of the workers (about one-fifth each) receiving 6, 7, and 12 days annually.

Virtually all full-time appliance repair technicians and apprentices covered by the survey were in facilities providing paid vacations after qualifying periods of service (table 15). Typically, vacation plans for these repairers called for at least 2 weeks of vacation pay after 1 year of service, 3 weeks after 10 years, and 4 weeks after 15 years. About one-half of the workers could receive 5 weeks after 25 years or more.

Hospitalization, surgical, and major medical insurance, for which the employer paid at least part of the cost, were provided to at least four-fifths of the full-time technicians and apprentices in each area surveyed (table 16). Provisions for life insurance and either sickness and accident insurance or sick leave, or both, covered at least two-thirds of the repairers in each of the

19 areas. Basic medical insurance was available to at least one-half of the workers in most areas while accidental death and dismemberment insurance and long-term disability insurance were provided to between one-fourth and one-half of the workers.

Retirement pension plans applied to a majority of the full-time technicians and apprentices in each of the 19 areas surveyed. Employers typically paid the entire cost of these pensions.

In each area, most of the workers were covered by formal provisions for jury-duty pay and for paid leave to attend the funeral of specified family members (table 17). At least one-half of the workers in most areas were employed in repair facilities providing either uniforms, uniforms and cleaning, or some monetary allowance for either. Among establishments requiring uniforms, however, these provisions applied to nearly all workers in each area. In Cleveland, New York, Philadelphia, San Francisco, and St. Louis, uniforms were not required for about half of the workers.

Industry characteristics

The 1,632 facilities within the scope of the survey employed 16,635 nonsupervisory service workers engaged in their repair operations. About three-fourths of these workers (12,913) were technicians and apprentices.

Television-radio technicians made up 38 percent of the repair work force; appliance technicians, 21 percent; and apprentices to both types of technicians, 6 percent. The remaining 35 percent were classified as service technicians and apprentices because they met overall job descriptions, but could not be identified as either electrical appliance or television-radio workers. Earnings data for these service technicians were publishable only for Newark.

The area employment levels of technicians and apprentices generally reflected the area's population size. Slightly more than three-fifths of the 12,913 technicians and apprentices were employed in 7 of the 19 areas. The Chicago metropolitan area had the largest number (1,641), followed by New York (1,499), Los Angeles-Long Beach (1,470), Philadelphia (1,033), Washington (833), Dallas-Fort Worth (771), and San Francisco-Oakland (732). Technician and apprentice employment in the remaining areas ranged from 568 in Nassau-Suffolk to 201 in Memphis (table A-1).

Technicians and apprentices engaged in the repair of major household appliances are found in a number of industries. In the 19 areas combined, nearly two-fifths of the workers were employed in department stores; two-fifths in electrical repair shops; slightly more than one-tenth in retail television and radio stores, and 6 to 7 percent each in appliance retailers and wholesalers. The proportion of workers in each type of establishment, however, varied widely among areas (table 1).

For example, at least one-half of the workers in Cleveland, Denver-Boulder, Nassau-Suffolk, Newark, and New York were in electrical repair shops, compared with less than one-fifth in three southern areas—Atlanta, Memphis, and Washington.

The repair facilities studied serviced a wide variety of electrical consumer products, ranging from television sets, radios, and tape players (brown goods) to larger household appliances such as refrigerators, freezers, and washers (white goods). Establishments primarily repairing white goods accounted for nearly three-fifths of the workers in the 19 areas. Brown goods repair facilities employed the remaining two-fifths. Among the 19 areas, the proportion of repairers employed by facilities primarily servicing white goods ranged from two-fifths in Denver-Boulder to nearly three-fourths in Memphis and Newark.

Appliance repair facilities with 10 or more repairers employed nearly two-thirds of the technicians and apprentices in November 1981. Facilities with fewer than five repairers employed about one-fifth; and those with five to nine repairers, about one-sixth.

In the 19 areas combined, formally established minimum entrance (hiring) rates for qualified full-time technicians were found in two-fifths of the repair facilities visited that hired electrical appliance workers and in one-third of those hiring TV-radio repairers (tables 11 and 12). Minimum entrance rates usually fell between \$6 and \$8 an hour in November 1981 for both TV-radio technicians and electrical appliance technicians.

Weekly work schedules of 40 hours applied to at least five-sixths of the full-time appliance repair technicians and apprentices in each of the 19 areas surveyed (table 13). In Buffalo, Chicago, Cleveland, Denver-Boulder, and Kansas City, about one-tenth of the repair workers had weekly schedules exceeding 40 hours, while in Memphis, nearly one-sixth had such schedules.

Apart from commissions for sales activity, at least four-fifths of the full-time technicians and apprentices in each area were paid on a time-rated basis, most commonly under formal plans providing ranges of rates for specified occupations (table 10). However, coverage under informal plans, with rates based primarily on the

qualifications of the individual workers, ranged from 17 percent of the workers in Buffalo to 43 percent in Denver; typically such plans covered between 28 and 38 percent of the workers.

Incentive pay plans usually involved individual bonus arrangements or payments of flat-rate percentages of the labor cost charged to the customer. Incentive pay plans applied to about one-fifth of the workers in Denver-Boulder and Washington, and about one-tenth or less in the remaining areas.

In all areas except Los Angeles, Memphis, Newark, and New York, State or local government licenses were required by employers in some establishments visited (table 1). The proportion of TV-radio technicians in shops with such license requirements ranged from all in Boston and nearly 75 percent in Kansas City, to 25-50 percent in five areas, and to about 20 percent or less in the remaining areas. In most areas, licenses were required of a smaller proportion of electrical appliance technicians than of TV-radio technicians.

Slightly more than one-third of the full-time electrical appliance workers were in facilities with collective bargaining agreements covering a majority of these workers, while one-fourth of the TV-radio repairers were in facilities with such coverage (table 1). About one-half of the electrical appliance repairers were under union contracts in Atlanta, Buffalo, Chicago, Cleveland, Kansas City, Minneapolis-St. Paul, and Philadelphia. Among TV-radio repairers, the highest rates of coverage ranged from 25 to 45 percent in eight areas. (In Memphis and Newark, no establishment visited reported a majority of its TV-radio repairers covered by a collective bargaining agreement; in Memphis and Washington, no establishment reported a majority of its electrical appliance repair workers covered.)

The International Brotherhood of Teamsters, Chauffeurs, Warehousemen and Helpers of America (Ind.) and the International Brotherhood of Electrical Workers (AFL-CIO) were the major unions in the industries. A number of other unions, including the United Electrical, Radio, and Machine Workers (Ind.), also represented appliance repair workers.

Table 1. Employment by selected characteristics

(Percent of full-time technicians and apprentices in appliance repair facilities by specified establishment characteristics, selected areas,¹ November 1981)

Area	Industry					Primary service		Size of facility			Percent of television-radio repair workers in establishments with—		Percent of electrical appliance repair workers in establishments with—	
	Electrical repair shops	Department stores	Retail television and radio stores	Appliance retailers	Appliance wholesalers	Television-radio repair	Electrical appliance repair	Fewer than 5 repairers	5 to 9 repairers	10 or more repairers	Union contract coverage ²	Licensure required	Union contract coverage ²	Licensure required
Total, 19 areas	38	38	11	7	6	42	58	20	15	65	25-29	17	35-39	10
Northeast														
Boston	47	25	9	9	9	36	64	30	13	57	5-9	100	30-34	39
Buffalo	43	32	9	16	-	54	46	21	17	61	30-34	33	50-54	41
Norfolk-Suffolk	57	35	4	-	4	33	67	19	13	67	35-39	31	30-34	3
Newark	56	28	6	5	2	27	73	19	13	68	-	-	35-39	-
New York	67	18	6	3	6	48	52	20	22	58	35-39	-	35-39	-
Philadelphia	31	40	7	11	12	37	63	13	21	68	30-34	29	50-54	3
South														
Atlanta	14	51	16	3	16	35	65	13	14	73	20-24	8	50-54	-
Dallas-Fort Worth	21	46	16	3	10	38	62	21	10	70	20-24	15	20-24	3
Memphis	17	58	9	18	1	28	72	30	4	68	-	-	-	-
Miami	37	45	8	2	8	35	65	16	10	74	15-19	20	25-29	-
Washington	15	50	20	12	4	43	57	24	15	61	5-9	5	-	-
North Central														
Chicago	27	44	11	8	10	40	60	11	15	75	35-39	13	50-54	6
Cleveland	59	30	4	7	-	46	54	24	20	58	20-24	11	50-54	-
Kansas City	22	40	14	11	7	39	61	20	16	64	30-34	73	45-49	49
Minneapolis-St. Paul	35	35	15	5	10	38	62	33	-	67	30-34	50	45-49	30
St. Louis	32	38	10	12	9	50	50	21	12	67	20-24	21	40-44	40
West														
Denver-Boulder	55	28	9	9	-	59	41	24	16	61	10-14	10	30-34	34
Los Angeles-Long Beach	38	39	19	4	3	51	49	22	15	63	15-19	-	15-19	-
San Francisco-Oakland	43	38	12	9	-	46	54	22	17	60	40-44	42	25-29	13

¹ For definitions of areas surveyed, see appendix table A-1, footnote 1.² Data relate to the percent of television-radio and electrical appliance repair workers in each area in establishments where labor-management agreements covered a majority of such workers. Union contract information was not collected for workers (service technicians and apprentices) routinely working on both television-radio sets and electrical appliances and who cannot be classified as either

television-radio or electrical appliance repair workers. Estimates are presented in 5-percent bands.

NOTE: Dashes indicate survey respondents reported no workers in this category. Because of rounding, sums of individual items may not equal 100.

Table 2. Occupational averages: Northeast

(Number and average straight-time hourly earnings¹ of workers in selected occupations, appliance repair shops, selected metropolitan areas,² November 1981)

Occupation and status	Boston				Buffalo				Newark-Suffolk			
	Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹		
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range
All technicians ³	294	\$8.84	\$8.90	\$8.88 - \$10.31	231	\$7.93	\$8.15	\$8.54 - \$10.15	544	\$9.12	\$10.05	\$7.50 - \$10.38
Full-time	282	3.90	9.17	6.88 - 10.31	224	8.05	8.15	6.57 - 10.15	511	4.14	10.05	7.30 - 10.38
Part-time	12	7.48	-	-	-	-	-	-	-	-	-	-
Television-radio technicians	102	8.60	7.58	6.75 - 8.93	112	6.52	6.54	4.00 - 8.14	162	7.52	6.81	6.25 - 10.07
Full-time	97	8.60	7.68	6.75 - 8.98	105	6.67	6.71	4.25 - 8.15	155	7.58	6.88	6.25 - 10.07
Inside (bench)	53	9.21	7.50	6.60 - 10.38	37	6.02	6.54	4.00 - 7.50	64	6.67	6.75	5.63 - 7.27
Outside (home repair)	32	8.60	8.75	7.13 - 9.09	29	6.13	6.71	5.67 - 6.71	32	6.31	6.25	6.01 - 6.69
Combination	12	6.59	-	-	39	7.70	8.13	6.00 - 10.31	-	-	-	-
Part-time	-	-	-	-	-	-	-	-	-	-	-	-
Inside (bench)	-	-	-	-	-	-	-	-	-	-	-	-
Outside (home repair)	-	-	-	-	-	-	-	-	-	-	-	-
Combination	-	-	-	-	-	-	-	-	-	-	-	-
Electric appliance technicians	110	7.95	7.13	6.50 - 10.31	35	7.21	6.85	6.75 - 7.60	109	8.18	8.80	7.00 - 9.38
Full-time	106	8.01	7.25	6.50 - 10.31	35	7.21	6.85	6.75 - 7.60	106	8.18	8.84	7.00 - 9.38
Inside (bench)	-	-	-	-	-	-	-	-	-	-	-	-
Outside (home repair)	89	8.18	7.25	6.50 - 10.31	26	6.85	6.85	6.61 - 7.00	91	8.15	8.80	7.62 - 9.38
Combination	16	7.03	6.70	6.00 - 7.68	7	6.64	-	-	42	8.15	7.25	7.00 - 9.38
Part-time	-	-	-	-	-	-	-	-	-	-	-	-
Outside (home repair)	-	-	-	-	-	-	-	-	-	-	-	-
All apprentices ⁴	47	4.75	4.75	4.13 - 5.00	-	-	-	-	24	5.83	5.73	4.73 - 6.52
Full-time	37	4.78	4.75	4.38 - 5.00	-	-	-	-	16	5.65	5.63	4.41 - 6.48
Part-time	10	4.64	-	-	-	-	-	-	-	-	-	-
Television-radio technicians, apprentice	21	4.64	5.00	3.60 - 5.25	-	-	-	-	6	4.81	-	-
Full-time	14	4.88	-	-	-	-	-	-	-	-	-	-
Part-time	-	-	-	-	-	-	-	-	-	-	-	-
Electrical appliance technicians, apprentice	24	4.57	4.50	4.38 - 4.75	-	-	-	-	10	5.75	-	-
Full-time	22	4.58	4.50	4.38 - 4.75	-	-	-	-	10	5.75	-	-
Part-time	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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Table 2. Occupations: averages: Northeast—Continued

(Number and average straight-time hourly earnings¹ of workers in selected occupations, appliance repair shops, selected metropolitan areas,² November 1981)

Occupation and status	Newark				New York				Philadelphia			
	Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹			Number of workers	Hourly earnings ¹		
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range
All technicians ⁴	398	\$8.79	\$10.05	\$7.00 - \$10.06	1,347	\$8.35	\$8.75	\$6.25 - \$10.32	993	\$9.24	\$10.25	\$7.88 - \$10.31
Full-time	375	8.91	10.05	7.37 - 10.06	1,318	8.33	8.75	6.28 - 10.31	973	9.30	10.25	8.00 - 10.31
Part-time	23	6.85	6.10	5.00 - 9.05	29	9.21	8.55	4.50 - 15.00	20	6.38	5.50	3.75 - 8.33
Television-radio technicians	101	6.77	7.30	5.10 - 8.00	631	7.61	7.50	5.63 - 10.00	355	8.41	8.48	7.00 - 10.07
Full-time	93	6.65	7.00	5.50 - 8.13	611	7.56	7.50	5.63 - 10.00	349	8.41	8.72	7.00 - 10.25
Inside (bench)	35	6.65	6.75	5.00 - 8.13	301	7.27	7.00	5.14 - 8.75	150	7.95	7.56	7.00 - 9.40
Outside (home repair)	25	6.14	6.80	5.00 - 7.00	162	5.58	6.69	5.63 - 7.88	79	7.71	7.13	6.00 - 8.75
Combination	20	8.57	8.75	7.50 - 10.00	-	-	-	-	-	-	-	-
Part-time	8	5.81	-	-	-	-	-	-	-	-	-	-
Inside (bench)	8	5.81	-	-	-	-	-	-	-	-	-	-
Electric appliance technicians	78	7.47	7.19	6.00 - 9.38	319	7.35	7.62	5.68 - 9.25	230	8.67	8.65	6.88 - 10.25
Full-time	71	7.63	7.50	6.25 - 9.66	319	7.35	7.62	5.68 - 9.25	219	8.88	8.65	7.25 - 10.25
Inside (bench)	-	-	-	-	51	6.63	6.25	5.53 - 8.13	-	-	-	-
Outside (home repair)	59	7.78	8.75	6.00 - 9.66	261	7.60	7.84	6.00 - 9.65	149	9.58	10.25	7.50 - 10.25
Combination	-	-	-	-	27	5.81	5.75	4.25 - 5.75	63	7.69	7.50	6.50 - 8.60
Part-time	7	5.87	-	-	-	-	-	-	-	-	-	-
Inside (bench)	-	-	-	-	-	-	-	-	-	-	-	-
Outside (home repair)	-	-	-	-	-	-	-	-	-	-	-	-
All apprentices ⁴	32	4.76	5.00	4.00 - 5.00	152	5.15	4.75	3.75 - 6.25	40	6.85	5.92	5.04 - 9.42
Full-time	8	4.57	-	-	128	5.07	4.06	3.75 - 6.25	32	6.96	5.92	5.00 - 9.46
Part-time	24	4.83	5.00	4.00 - 5.00	24	5.57	5.00	4.55 - 6.00	-	-	-	-
Television-radio technicians, apprentice	23	4.74	5.00	4.50 - 5.00	82	5.15	4.70	4.00 - 5.92	-	-	-	-
Full-time	7	4.65	-	-	58	5.27	4.81	4.00 - 6.00	-	-	-	-
Part-time	16	4.78	5.00	4.63 - 5.00	14	4.56	-	-	-	-	-	-
Electrical appliance technicians, apprentice	-	-	-	-	57	4.71	4.00	3.50 - 6.25	29	6.95	5.90	5.00 - 9.46
Full-time	-	-	-	-	57	4.71	4.00	3.50 - 6.25	29	6.95	5.90	5.00 - 9.46
Part-time	-	-	-	-	-	-	-	-	-	-	-	-

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts, as well as any commissions earned for the sale of maintenance contracts, parts, or appliances. Premiums paid for licenses, if any, held by employees are included.

² For definitions of areas, see appendix A.

³ See appendix A for definitions of means, medians, and middle ranges. Medians and middle ranges are not provided for entries with fewer than 15 workers.

⁴ Includes data for technicians and apprentices routinely working on both television-

radio sets and electrical appliances and who cannot be classified as either television-radio or electrical appliance workers. Data for such workers, called service technicians and apprentices in this study, met publication criteria only in Newark. There, full-time service technicians on combination (inside and outside) work averaged \$10.31 an hour.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupation may include data for subcategories not shown separately.

Table 3. Occupational averages: South

(Number and average straight-time hourly earnings¹ of workers in selected occupations, appliance repair shops, selected metropolitan areas,² November 1981)

Occupation and status	Atlanta				Dallas-Fort Worth				Memphis			
	Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³		
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range
All technicians ⁴	478	\$10.17	\$10.32	\$9.50 - \$11.74	706	\$8.69	\$9.00	\$7.90 - \$9.65	190	\$9.16	\$11.00	\$8.90 - \$11.03
Full-time	462	10.24	10.32	9.54 - 11.77	688	8.71	9.06	7.90 - 9.65	178	9.12	11.00	8.88 - 11.03
Part-time	16	8.13	7.77	7.00 - 10.05	18	7.97	7.52	6.25 - 9.83	14	10.04	-	-
Television-radio technicians	181	8.87	9.50	7.50 - 10.03	263	8.54	8.49	7.50 - 9.84	48	6.86	6.70	5.58 - 7.50
Full-time	154	8.96	9.50	7.50 - 10.06	257	8.51	8.49	7.40 - 9.84	44	6.85	6.70	5.50 - 7.50
Inside (bench)	81	9.05	9.54	7.76 - 10.00	137	8.33	8.21	7.02 - 9.13	28	6.76	7.00	5.26 - 7.88
Outside (home repair)	20	6.64	6.91	6.88 - 7.03	27	8.55	8.57	7.50 - 9.82	10	6.32	-	-
Combination	53	9.70	9.78	9.50 - 10.07	93	8.76	8.79	7.88 - 10.06	-	-	-	-
Part-time	7	6.86	-	-	-	-	-	-	-	-	-	-
Inside (bench)	-	-	-	-	-	-	-	-	-	-	-	-
Outside (home repair)	-	-	-	-	-	-	-	-	-	-	-	-
Combination	-	-	-	-	-	-	-	-	-	-	-	-
Electric appliance technicians	90	9.01	10.03	8.92 - 10.03	154	8.45	8.49	7.50 - 9.82	31	6.25	5.82	5.00 - 7.10
Full-time	90	9.01	10.03	8.92 - 10.03	150	8.51	8.49	7.65 - 9.82	29	6.12	5.82	5.50 - 7.00
Inside (bench)	-	-	-	-	16	7.83	8.00	7.03 - 8.00	9	5.46	-	-
Outside (home repair)	24	8.22	9.12	5.96 - 9.80	-	-	-	-	20	6.42	5.82	5.82 - 7.50
Combination	-	-	-	-	79	7.83	7.79	7.30 - 8.49	-	-	-	-
Part-time	-	-	-	-	-	-	-	-	-	-	-	-
Inside (bench)	-	-	-	-	-	-	-	-	-	-	-	-
Outside (home repair)	-	-	-	-	-	-	-	-	-	-	-	-
Combination	-	-	-	-	-	-	-	-	-	-	-	-
All apprentices ⁵	20	6.64	6.80	4.56 - 8.31	65	5.19	5.95	4.75 - 7.12	11	3.97	-	-
Full-time	-	-	-	-	55	6.29	5.95	4.75 - 7.58	11	3.97	-	-
Part-time	-	-	-	-	-	-	-	-	-	-	-	-
Television-radio technicians, apprentice	-	-	-	-	-	-	-	-	8	4.01	-	-
Full-time	-	-	-	-	-	-	-	-	8	4.01	-	-
Part-time	-	-	-	-	-	-	-	-	-	-	-	-
Electrical appliance technicians, apprentice	-	-	-	-	14	5.67	-	-	-	-	-	-
Full-time	-	-	-	-	14	5.67	-	-	-	-	-	-

See footnotes at end of table.

Table 2. Occupational averages: South—Continued

(Number and average straight-time hourly earnings¹ of workers in selected occupations, appliance repair shops, selected metropolitan areas,² November 1981)

Occupation and status	Miami				Washington			
	Number of workers	Hourly earnings ³			Number of workers	Hourly earnings ³		
		Mean	Median	Middle range		Mean	Median	Middle range
All technicians ⁴	481	\$9.22	\$9.87	\$8.00 - \$10.90	776	\$8.50	\$8.63	\$7.40 - \$9.92
Full-time	433	9.24	9.88	7.92 - 10.90	730	8.63	8.75	7.50 - 9.92
Part-time	28	8.09	8.50	8.50 - 10.00	46	6.43	5.79	5.50 - 8.00
Television-radio technicians	165	8.25	6.13	7.00 - 10.00	363	7.97	8.00	6.50 - 9.07
Full-time	154	8.23	8.13	7.00 - 9.88	323	8.20	8.00	6.75 - 9.07
Inside (bench)	69	8.05	8.00	7.00 - 8.50	212	8.46	8.75	6.50 - 9.63
Outside (home repair)	49	7.44	7.50	6.50 - 8.50	53	7.69	8.00	7.41 - 8.24
Combination	-	-	-	-	58	7.74	8.00	7.90 - 8.50
Part-time	11	8.55	-	-	40	6.10	5.76	4.98 - 7.75
Inside (bench)	9	9.33	-	-	15	5.10	5.50	4.00 - 5.79
Outside (home repair)	-	-	-	-	-	-	-	-
Combination	-	-	-	-	-	-	-	-
Electric appliance technicians	110	8.51	8.50	7.00 - 9.87	158	8.86	9.07	7.50 - 9.92
Full-time	108	8.42	8.50	7.00 - 9.87	158	8.86	9.07	7.50 - 9.92
Inside (bench)	-	-	-	-	14	8.74	-	-
Outside (home repair)	99	8.47	8.50	7.00 - 9.87	118	9.41	9.07	8.74 - 10.50
Combination	-	-	-	-	26	6.44	6.25	5.85 - 7.00
Part-time	-	-	-	-	-	-	-	-
Outside (home repair)	-	-	-	-	-	-	-	-
All apprentices ⁴	88	5.57	5.13	4.41 - 6.61	57	4.93	4.80	4.50 - 5.50
Full-time	80	5.57	5.13	4.56 - 6.50	40	5.22	5.13	4.78 - 5.50
Part-time	8	5.52	-	-	17	4.24	3.80	3.50 - 4.80
Television-radio technicians, apprentice	31	5.48	5.50	4.75 - 6.37	27	4.72	4.75	3.80 - 5.50
Full-time	27	5.73	5.50	5.00 - 6.50	17	5.35	5.50	4.75 - 6.34
Part-time	-	-	-	-	-	-	-	-
Electrical appliance technicians, apprentice	44	5.12	5.00	4.00 - 5.50	-	-	-	-
Full-time	44	5.12	5.00	4.00 - 5.50	-	-	-	-

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts, as well as any commissions earned for the sale of maintenance contracts, parts, or appliances. Premiums paid for licenses, if any, held by employees are included.

² For definitions of areas, see appendix A.

³ See appendix A for definitions of means, medians, and middle ranges. Medians and middle ranges are not provided for entries with fewer than 15 workers.

⁴ Includes data for technicians and apprentices routinely

working on both television-radio sets and electrical appliances and who cannot be classified as either television-radio or electrical appliance workers. Data for such workers, called service technicians and apprentices in this study, did not meet publication criteria in any area in the South.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupation may include data for subcategories not shown separately.

Table 4. Occupational averages: North Central

(Number and average straight-time hourly earnings¹ of workers in selected occupations, appliance repair shops, selected metropolitan areas, November 1981)

Occupation and status	Chicago				Cleveland				Kansas City			
	Number of workers	Hourly earnings ²			Number of workers	Hourly earnings ²			Number of workers	Hourly earnings ²		
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range
All technicians ⁴	1,536	\$9.59	\$10.05	\$8.72 - \$10.85	386	\$9.00	\$9.51	\$7.83 - \$10.50	325	\$8.55	\$9.00	\$7.50 - \$9.98
Full-time	1,493	9.62	10.05	8.90 - 10.85	380	9.03	9.59	7.73 - 10.50	320	8.58	9.00	7.50 - 10.00
Part-time	43	8.63	8.53	8.00 - 10.00	-	-	-	-	-	-	-	-
Television-radio technicians	623	8.99	9.17	8.00 - 10.00	175	7.90	7.83	6.75 - 9.00	125	8.19	8.31	6.50 - 9.85
Full-time	594	9.02	9.21	8.00 - 10.02	169	7.93	7.83	6.75 - 9.00	123	8.20	8.31	6.34 - 9.85
Inside (bench)	234	8.89	8.90	7.85 - 10.00	67	7.96	7.73	7.21 - 9.00	25	8.43	8.60	7.25 - 9.50
Outside (home repair)	154	8.57	8.69	8.00 - 8.97	35	6.92	7.00	6.25 - 7.50	13	7.45	-	-
Combination	206	9.74	10.06	10.00 - 10.32	67	8.42	8.75	6.75 - 10.07	85	8.24	8.31	6.34 - 10.07
Part-time	-	-	-	-	-	-	-	-	-	-	-	-
Inside (bench)	-	-	-	-	-	-	-	-	-	-	-	-
Outside (home repair)	-	-	-	-	-	-	-	-	-	-	-	-
Combination	-	-	-	-	-	-	-	-	-	-	-	-
Electric appliance technicians	383	9.21	9.75	8.18 - 10.61	66	8.86	8.71	8.71 - 9.50	102	8.08	8.00	7.00 - 9.20
Full-time	383	9.21	9.75	8.18 - 10.61	66	8.86	8.71	8.71 - 9.50	102	8.08	8.00	7.00 - 9.20
Inside (bench)	-	-	-	-	-	-	-	-	-	-	-	-
Outside (home repair)	142	8.96	8.95	8.00 - 9.78	-	-	-	-	32	7.90	7.89	7.00 - 9.19
Combination	226	9.41	10.13	8.50 - 10.61	-	-	-	-	58	6.51	6.56	7.73 - 8.85
All apprentices ⁴	105	6.35	6.75	4.50 - 7.27	26	5.65	4.83	4.00 - 7.15	13	4.62	-	-
Full-time	64	6.56	6.67	4.68 - 7.50	17	6.42	5.25	4.90 - 7.92	8	3.81	-	-
Part-time	-	-	-	-	-	-	-	-	-	-	-	-
Television-radio technicians, apprentice	64	5.76	4.87	4.50 - 6.67	16	4.53	4.00	4.00 - 4.75	10	4.14	-	-
Full-time	48	6.19	6.57	4.50 - 7.31	7	4.97	-	-	8	3.81	-	-
Part-time	-	-	-	-	-	-	-	-	-	-	-	-
Electrical appliance technicians, apprentice	9	7.95	-	-	-	-	-	-	-	-	-	-
Full-time	9	7.95	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 4. Occupational averages: North Central—Continued

(Number and average straight-time hourly earnings¹ of workers in selected occupations, appliance repair shops, selected metropolitan areas,² November 1961)

Occupation and status	Minneapolis-St. Paul					St. Louis				
	Number of workers	Hourly earnings ³				Number of workers	Hourly earnings ³			
		Mean	Median	Middle range			Mean	Median	Middle range	
All technicians ⁴	412	\$9.31	\$9.50	\$8.21 - \$10.90		461	\$9.19	\$10.07	\$7.50 - \$10.66	
Full-time	408	9.32	9.55	8.25 - 10.90		436	9.26	10.17	7.50 - 10.66	
Part-time	-	-	-	-		25	7.93	7.50	7.00 - 9.51	
Television-radio technicians	160	8.62	8.88	7.25 - 9.64		227	8.46	9.00	6.85 - 10.32	
Full-time	157	8.65	9.00	7.50 - 9.64		209	8.45	9.00	6.50 - 10.32	
Inside (bench)	60	8.49	8.37	6.50 - 9.64		101	8.57	8.75	6.96 - 10.66	
Outside (home repair)	-	-	-	-		43	8.07	8.12	6.00 - 10.24	
Combination	89	8.85	9.40	8.00 - 9.64		65	8.53	10.06	6.44 - 10.31	
Part-time	-	-	-	-		18	8.52	8.50	7.00 - 10.20	
Inside (bench)	-	-	-	-		17	8.42	7.50	7.00 - 9.51	
Combination	-	-	-	-		-	-	-	-	
Electric appliance technicians	126	8.75	8.93	7.00 - 9.64		109	8.83	9.90	7.50 - 10.24	
Full-time	126	8.75	8.93	7.00 - 9.64		105	8.98	9.98	7.50 - 10.24	
Inside (bench)	-	-	-	-		-	-	-	-	
Outside (home repair)	78	8.87	8.90	7.00 - 9.64		-	-	-	-	
Combination	-	-	-	-		46	7.81	7.50	6.75 - 9.20	
Part-time	-	-	-	-		-	-	-	-	
Combination	-	-	-	-		-	-	-	-	
All apprentices ⁴	6	7.20	-	-		29	4.82	4.25	3.50 - 5.50	
Full-time	6	7.76	-	-		21	5.25	5.00	3.75 - 6.32	
Part-time	-	-	-	-		8	3.67	-	-	
Television-radio technicians, apprentice	-	-	-	-		13	4.84	-	-	
Full-time	-	-	-	-		12	4.97	-	-	
Part-time	-	-	-	-		-	-	-	-	
Electrical appliance technicians, apprentice	-	-	-	-		14	4.43	-	-	
Full-time	-	-	-	-		-	-	-	-	
Part-time	-	-	-	-		-	-	-	-	

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts, as well as any commissions earned for the sale of maintenance contracts, parts, or appliances. Premiums paid for licenses, if any, held by employees are included.

² For definitions of areas, see appendix A.

³ See appendix A for definitions of means, medians, and middle ranges. Medians and middle ranges are not provided for entries with fewer than 15 workers.

⁴ Include data for technicians and apprentices routinely

working on both television-radio sets and electrical appliances and who cannot be classified as either television-radio or electrical appliance workers. Data for such workers, called service technicians and apprentices in this study, did not meet publication criteria in any of the North Central areas.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupation may include data for subcategories not shown separately.

Table 5. Occupational averages: West

(Number and average straight-time hourly earnings¹ of workers in selected occupations, appliance repair shops, selected metropolitan areas,² November 1981)

Occupation and status	Denver-Boulder				Los Angeles				San Francisco-Oakland			
	Number of workers	Hourly earnings ²			Number of workers	Hourly earnings ²			Number of workers	Hourly earnings ²		
		Mean	Median	Middle range		Mean	Median	Middle range		Mean	Median	Middle range
All technicians ³	400	\$8.73	\$8.75	\$7.50 - \$9.99	1,383	\$8.36	\$8.95	\$8.45 - \$10.58	684	\$10.43	\$10.94	\$8.79 - \$12.00
Full-time	389	8.69	8.75	7.50 - 9.85	1,353	9.41	10.00	8.45 - 10.58	629	10.48	10.95	9.00 - 12.00
Part-time	11	10.31	-	-	30	6.83	5.50	5.00 - 8.05	35	9.48	9.50	6.23 - 12.00
Television-radio technicians	227	8.64	8.45	7.50 - 10.00	638	8.73	9.00	7.75 - 10.00	303	9.93	10.85	8.21 - 11.29
Full-time	218	8.54	8.45	7.50 - 10.00	630	8.78	9.00	7.75 - 10.00	276	9.87	10.85	8.05 - 11.29
Inside (bench)	125	8.74	8.64	7.50 - 10.25	297	8.74	9.00	7.75 - 9.82	140	9.17	8.50	6.93 - 11.25
Outside (home repair)	40	8.68	8.00	7.00 - 10.07	154	8.27	8.03	7.50 - 8.85	18	6.75	8.00	6.00 - 9.56
Combination	53	7.95	8.01	7.44 - 9.34	179	9.29	10.06	9.00 - 10.31	-	-	-	-
Part-time	9	10.99	-	-	-	-	-	-	27	10.52	10.00	8.50 - 12.00
Inside (bench)	8	11.54	-	-	-	-	-	-	14	12.15	-	-
Outside (home repair)	-	-	-	-	-	-	-	-	-	-	-	-
Combination	-	-	-	-	-	-	-	-	10	9.22	-	-
Electric appliance technicians	114	8.69	8.75	7.50 - 10.06	209	9.19	9.00	7.95 - 10.32	153	9.55	9.98	8.00 - 10.85
Full-time	112	8.72	8.75	7.93 - 10.07	193	9.38	9.10	8.25 - 10.50	152	9.72	10.50	8.00 - 10.85
Inside (bench)	-	-	-	-	22	8.51	8.52	6.50 - 9.00	20	10.48	11.61	8.27 - 12.50
Outside (home repair)	50	9.25	9.89	8.75 - 10.14	90	9.32	9.00	8.33 - 10.50	117	9.44	9.68	8.00 - 10.75
Combination	61	8.30	8.25	7.29 - 9.34	81	9.69	10.00	8.50 - 10.61	-	-	-	-
Part-time	-	-	-	-	10	6.81	6.00	5.00 - 7.60	-	-	-	-
Inside (bench)	-	-	-	-	-	-	-	-	-	-	-	-
Outside (home repair)	-	-	-	-	-	-	-	-	-	-	-	-
Combination	-	-	-	-	-	-	-	-	-	-	-	-
All apprentices ⁴	52	5.27	5.00	4.22 - 6.25	87	6.02	5.50	5.00 - 7.50	68	7.56	7.82	6.00 - 9.77
Full-time	44	5.56	5.00	4.25 - 6.25	66	6.41	5.96	5.00 - 7.92	64	7.78	8.14	6.00 - 9.77
Part-time	-	-	-	-	21	4.80	5.00	4.00 - 5.63	-	-	-	-
Television-radio technicians, apprentice	42	5.09	4.25	4.00 - 6.25	52	6.02	5.00	4.50 - 7.82	37	7.66	8.31	6.00 - 9.77
Full-time	34	5.42	4.81	4.25 - 6.25	46	6.29	5.58	4.50 - 8.30	33	8.10	8.68	6.00 - 10.31
Part-time	-	-	-	-	-	-	-	-	-	-	-	-
Electrical appliance technicians, apprentice	-	-	-	-	28	5.83	5.50	5.00 - 5.91	28	7.36	7.70	4.81 - 9.58
Full-time	-	-	-	-	14	6.56	-	-	28	7.36	7.70	4.81 - 9.58
Part-time	-	-	-	-	14	5.10	-	-	-	-	-	-

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts, as well as any commissions earned for the sale of maintenance contracts, parts, or appliances. Premiums paid for licenses, if any, held by employees are included.

² For definitions of areas, see appendix A.

³ See appendix A for definitions of means, medians, and middle ranges. Medians and middle ranges are not provided for entries with fewer than 15 workers.

⁴ Includes data for technicians and apprentices routinely working on both television-

radio sets and electrical appliances and who cannot be classified as either television-radio or electrical appliance workers. Data for such workers, called service technicians and apprentices in this study, did not meet publication criteria in any area in the West.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupation may include data for subcategories not shown separately.

Table 6. Earnings distribution: Television-radio technicians—full time

(Percent distribution of employees in appliance repair shops by straight-time hourly earnings,¹ selected metropolitan areas,² November 1981)

Hourly earnings	Northeast						South					North Central					West		
	Boston	Buffalo	Nassau-Suffolk	Newark	New York	Philadelphia	Atlanta	Dallas-Fort Worth	Memphis	Miami	Washington	Chicago	Cleveland	Kansas City	Minneapolis-St. Paul	St. Louis	Denver-Boulder	Los Angeles-Long Beach	San Francisco-Oakland
Number of workers	97	105	155	93	611	349	154	257	44	154	323	594	160	123	157	209	218	630	276
Average hourly earnings	\$8.69	\$6.67	\$7.58	\$6.85	\$7.56	\$8.41	\$8.96	\$8.51	\$6.65	\$8.23	\$8.20	\$9.02	\$7.93	\$8.20	\$8.65	\$8.45	\$8.54	\$8.78	\$9.87
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under \$4.00	-	19.0	-	4.3	3.4	-	-	-	-	-	-	-	-	-	-	1.0	-	-	-
\$4.00 and under \$4.20	-	5.7	-	2.2	1.8	-	1.9	-	-	1.3	-	-	-	-	-	1.4	-	-	-
\$4.20 and under \$4.40	-	2.9	-	3.2	7	-	-	-	-	-	1.5	-	-	-	-	-	-	-	-
\$4.40 and under \$4.60	-	1.0	-	3.2	7	-	-	-	-	-	-	-	-	-	-	2.9	-	2	-
\$4.60 and under \$4.80	-	-	-	-	5.6	-	1.9	-	2.3	-	1.5	-	-	-	-	-	1.4	-	-
\$4.80 and under \$5.00	-	-	-	-	2.9	1.7	-	-	4.5	-	-	-	-	-	-	1.9	5	-	-
\$5.00 and under \$5.20	-	-	8.4	11.8	5.4	-	1.9	-	-	1.3	3.1	5	1.8	-	-	4.8	-	2.4	-
\$5.20 and under \$5.40	-	-	-	-	2.1	-	-	4	4.5	2.6	1.5	2	2.4	1.6	-	-	2.3	3	7
\$5.40 and under \$5.60	3.1	-	-	2.2	8	6	-	1.9	11.4	1.9	-	1.0	2.4	-	-	5	1.4	-	3.3
\$5.60 and under \$5.80	5.2	1.0	9.7	2.2	4.6	3.4	-	1.9	-	-	1.5	-	-	7.3	-	1.9	3.2	-	1.1
\$5.80 and under \$6.00	-	1.0	3.2	-	1.0	2.9	-	-	4.5	-	3.1	-	2.4	-	2.5	5	9	3	-
\$6.00 and under \$6.20	5.2	4.8	1.3	5.4	1.3	8.3	-	8	-	2.6	3.4	2.4	2.4	9.8	8.3	2.4	9	5.1	1.8
\$6.20 and under \$6.40	3.1	4.8	19.4	2.2	4.1	2.0	1.9	1.9	11.4	1.9	3.4	1.9	2.4	6.5	-	5	5	1.0	-
\$6.40 and under \$6.60	2.1	8.6	6	-	2.6	9	1.9	2.3	6.8	4.5	4.0	3.7	9.5	8	5.1	8.1	2.8	3.5	1.8
\$6.60 and under \$6.80	7.2	13.3	5.2	4.3	3.1	3.2	-	-	-	2.5	-	-	4.1	-	1.3	5	3.7	5	3.6
\$6.80 and under \$7.00	5.2	1.0	6.5	7.5	2.1	1.7	7.8	2.3	13.6	2.6	1.5	3	1.8	-	-	2.4	5	1.3	2.5
\$7.00 and under \$7.20	8.2	3.8	2.6	8.6	4.6	12.6	5.2	8.6	4.5	11.0	2.5	3.7	2.4	2.4	5.1	4.8	2.3	4.0	1.1
\$7.20 and under \$7.40	-	-	3.9	4.3	8	-	6	3.9	4.5	1.3	1.2	8	7.7	2.4	2.5	1.4	1.8	3.0	-
\$7.40 and under \$7.60	10.3	1.9	3.9	8.6	4.6	2.9	3.2	7.4	11.4	3.2	9.0	3.2	6.5	4.9	2.5	4.3	8.7	1.7	3.3
\$7.60 and under \$7.80	2.1	1.0	-	-	-	4.3	1.9	1.6	-	3.2	2.8	3	9.5	8.9	6	-	8.3	2.4	1.1
\$7.80 and under \$8.00	1.0	-	6	2.2	5.9	9	-	6.6	-	4.5	2.8	1.7	4.1	-	1.3	5	1.4	3	1.1
\$8.00 and under \$8.40	7.2	7.6	2.6	5.4	3.6	3.2	3.9	6.2	4.5	13.0	10.2	8.9	7.1	10.6	12.1	5.3	9.2	8.9	8.3
\$8.40 and under \$8.80	11.3	1.9	1.3	12.9	7.2	7.2	1.3	16.3	2.3	9.1	15.2	7.6	5.9	4.9	5.7	3.8	11.9	8.3	5.1
\$8.80 and under \$9.20	5.2	1.9	-	2.2	2.3	6	2.6	3.9	4.5	3.2	9.0	13.6	3.0	5.7	12.1	3.8	4.6	10.0	1.8
\$9.20 and under \$9.60	1.0	-	1.3	1.1	2.5	4.3	22.7	2.7	4.5	2.6	3.1	1.7	1.2	3.3	13.4	2.4	5.5	10.6	1.1
\$9.60 and under \$10.00	-	1.9	-	-	-	1.1	2.6	11.7	-	6.5	1.9	3.7	1.2	8.1	12.7	5.7	2.3	3.8	7
\$10.00 and under \$10.50	10.3	14.3	28.4	6.5	22.1	33.5	26.0	16.0	-	21.4	5.3	37.7	21.3	19.5	10.8	21.1	9.2	23.2	3.3
\$10.50 and under \$11.00	1.0	1.9	1.3	-	1.6	2.6	3.9	1.2	-	1.3	3.1	4.4	1.2	3.3	6	14.8	7.3	6.2	25.7
\$11.00 and under \$11.50	1.0	-	-	-	7	9	5.8	-	-	-	3.1	2.7	-	-	-	2.4	4.6	1.4	15.6
\$11.50 and under \$12.00	-	1.0	-	-	-	3	-	4	-	6	-	-	-	-	-	-	-	3	9.1
\$12.00 and under \$12.50	-	-	-	-	-	6	-	4	-	-	2.2	-	-	-	6	-	9	3	1.8
\$12.50 and under \$13.00	1.0	-	-	-	1.3	-	1.3	4	-	-	-	-	-	-	6	-	3.7	1.0	3.3
\$13.00 and over	9.3	-	-	-	7	5	1.3	1.2	-	-	1.5	-	-	-	1.9	1.0	5	2	2.9

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts, as well as any commissions earned for the sale of maintenance contracts, parts, or appliances. Premiums paid for licenses, if any, held by employees are included.

² For definitions of areas, see appendix table A-1, footnote 1.

³ Workers were distributed as follows: 8.6 percent at \$3.35 and under \$3.40; 2.9 percent at \$3.40

and under \$3.50; 6.7 percent at \$3.50 and under \$3.60; and 1.0 percent at \$3.90 and under \$4.00.

NOTE: Because of rounding, sums of individual items may not equal 100. Dashes indicate no data.

Table 7. Earnings distribution: Electrical appliance technicians—full time

(Percent distribution of employees in appliance repair shops by straight-time hourly earnings,¹ selected metropolitan areas,² November 1981)

Hourly earnings	Northeast						South					North Central					West		
	Boston	Buffalo	Nassau-Suffolk	Newark	New York	Philadelphia	Atlanta	Dallas-Fort Worth	Memphis	Miami	Washington	Chicago	Cleveland	Kansas City	Minneapolis-St. Paul	St. Louis	Denver-Boulder	Los Angeles-Long Beach	San Francisco-Oakland
Number of workers	106	35	106	71	319	210	90	150	29	106	158	383	68	102	126	105	112	193	152
Average hourly earnings	\$8.01	\$7.21	\$8.18	\$7.63	\$7.35	\$8.88	\$9.01	\$8.51	\$8.12	\$8.42	\$8.66	\$9.21	\$8.86	\$8.06	\$8.75	\$8.98	\$8.72	\$9.36	\$9.72
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under \$4.20	-	-	-	-	-	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-
\$4.20 and under \$4.40	-	-	8.3	1.4	11.0	-	-	-	5.9	-	-	-	-	-	-	-	-	-	-
\$4.40 and under \$4.60	-	-	-	-	-	-	-	-	6.9	-	-	-	-	-	-	-	-	-	-
\$4.60 and under \$4.80	-	-	-	-	-	-	-	-	-	.9	-	-	-	-	-	-	-	-	-
\$4.80 and under \$5.00	-	-	-	-	1.3	-	-	-	-	-	-	-	-	4.9	-	4.8	-	-	2.6
\$5.00 and under \$5.20	-	2.9	-	14.1	6.6	.5	6.7	-	10.3	2.8	-	-	-	-	-	-	-	-	-
\$5.20 and under \$5.40	1.3	-	-	2.8	.6	-	-	-	3.4	.9	-	-	-	-	-	-	-	-	-
\$5.40 and under \$5.60	-	-	-	-	1.9	.5	-	-	-	-	4.4	1.8	-	-	12.7	-	2.7	-	3.3
\$5.60 and under \$5.80	1.9	-	-	1.4	10.0	.5	-	-	-	-	-	-	-	-	-	-	-	-	-
\$5.80 and under \$6.00	2.8	8.6	-	-	-	-	-	-	34.5	.9	3.8	-	-	-	-	-	-	-	-
\$6.00 and under \$6.20	9.4	-	-	4.2	1.9	6.4	5.6	-	6.9	2.8	4.4	-	-	5.9	-	3.8	.9	-	2.8
\$6.20 and under \$6.40	5.7	-	.9	1.4	5.6	.5	6.7	5.3	-	4.6	-	2.9	6.1	1.0	2.4	-	-	3.1	3.3
\$6.40 and under \$6.60	7.5	8.6	-	2.8	-	10.0	-	-	-	-	-	1.8	1.5	6.9	-	2.9	1.8	2.6	-
\$6.60 and under \$6.80	8.5	11.4	-	4.2	.6	-	-	1.3	-	-	-	-	-	-	1.6	2.9	-	-	1.3
\$6.80 and under \$7.00	5.7	31.4	-	2.8	1.3	.5	-	2.7	3.4	3.7	.6	2.6	-	3.9	-	-	-	9.3	2.6
\$7.00 and under \$7.20	5.7	5.7	18.5	12.7	2.2	2.3	2.2	6.7	6.9	11.1	2.5	6.5	3.0	8.8	8.7	1.0	6.3	8.9	2.6
\$7.20 and under \$7.40	5.7	5.7	9	1.4	.9	7.8	-	1.3	-	3.7	.6	2.6	-	-	-	11.4	3.6	-	2.0
\$7.40 and under \$7.60	1.9	-	5.6	2.8	6.0	5.5	-	7.3	10.3	7.4	7.0	1.0	-	3.9	4.0	4.8	-	2.6	-
\$7.60 and under \$7.80	-	5.7	1.5	2.8	4.4	-	-	6.7	3.4	1.9	-	-	-	6.9	-	1.0	3.6	3.6	-
\$7.80 and under \$8.00	-	-	2.8	-	2.2	-	-	3.3	-	-	2.5	2.3	-	5.9	-	-	-	-	-
\$8.00 and under \$8.20	3.8	11.4	3.7	-	10.0	2.3	-	6.7	-	1.9	3.2	3.7	-	3.9	-	3.8	1.8	3.6	5.3
\$8.20 and under \$8.40	-	-	.9	-	.8	-	-	4.0	-	.9	3.2	3.1	-	3.9	6.7	-	7.1	3.6	2.6
\$8.40 and under \$8.60	-	-	-	-	.9	-	3.3	13.3	3.4	9.3	.6	5.2	-	-	.8	1.0	2.7	9.8	2.6
\$8.60 and under \$8.80	2.8	-	4.6	5.6	3.4	12.3	-	2.0	-	.9	3.2	5.0	48.5	3.9	4.0	1.0	13.4	2.6	1.3
\$8.80 and under \$9.00	-	-	16.7	9.9	.6	-	3.3	.7	-	.9	-	2.9	-	-	7.9	-	-	.5	-
\$9.00 and under \$9.20	-	-	2.8	1.4	2.5	.5	-	1.3	-	1.9	19.6	-	-	15.7	-	-	.9	9.3	5.3
\$9.20 and under \$9.40	1.9	-	20.4	1.4	2.5	.5	3.3	1.3	3.4	2.8	-	-	30.3	-	.8	3.8	19.6	5.2	2.6
\$9.40 and under \$9.60	1.9	-	-	1.4	-	.5	-	4.0	-	7.4	-	2.6	-	-	15.9	-	-	1.8	1.3
\$9.60 and under \$9.80	-	-	5.6	25.4	9.1	-	10.0	-	-	3.7	3.2	5.5	-	22.5	19.0	1.0	.9	3.1	5.9
\$9.80 and under \$10.00	9	-	-	-	8.8	.5	-	26.0	-	22.2	14.6	2.6	-	-	-	7.6	-	.5	1.3
\$10.00 and under \$10.40	32.1	8.6	5.6	-	5.0	30.6	58.9	4.0	-	1.9	2.5	12.0	10.6	2.0	5.6	41.9	25.9	13.5	.7
\$10.40 and under \$10.80	-	-	-	-	-	-	-	-	-	-	-	5.1	25.8	-	-	5.7	-	7.8	18.4
\$10.80 and under \$11.20	-	-	-	-	-	-	-	-	-	-	-	5.1	.8	-	-	1.9	-	2.6	10.5
\$11.20 and under \$11.60	-	-	.9	-	-	-	-	-	-	-	-	1.8	-	-	.8	-	-	9.3	2.6
\$11.60 and under \$12.00	-	-	-	-	-	-	-	-	-	2.8	-	.8	-	-	.8	-	-	-	10.5
\$12.00 and under \$12.40	-	-	-	-	-	16.0	-	-	-	-	1.3	.8	-	-	.8	-	-	-	-
\$12.40 and over	-	-	-	-	-	-	-	-	-	1.9	2.5	.8	-	-	5.6	-	-	5.7	8.6

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts, as well as any commissions earned for the sale of maintenance contracts, parts, or appliances. Premiums paid for licenses, if any, held by employees are included.

² For definitions of areas, see appendix table A-1, footnote 1.

NOTE: Because of rounding, sums of individual items may not equal 100. Dashes indicate no data.

Table 8. Earnings distribution: TV-radio apprentice technicians

(Percent distribution of employees in appliance repair shops by straight-time hourly earnings,¹ selected metropolitan areas,² November 1981)

Hourly earnings	Northeast			South		North Central		West		
	Boston	Newark	New York	Miami	Washington	Chicago	Cleveland	Denver-Boulder	Los Angeles-Long Beach	San Francisco-Oakland
Number of workers	21	23	82	31	27	64	16	42	52	37
Average hourly earnings	\$4.64	\$4.74	\$5.15	\$5.48	\$4.72	\$5.76	\$4.53	\$5.09	\$6.02	\$7.66
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
\$3.35 and under \$3.40	-	-	7.3	-	-	-	-	9.5	-	-
\$3.50 and under \$3.60	19.0	-	4.9	6.5	18.5	-	-	-	-	-
\$3.60 and under \$3.70	14.3	-	-	-	-	-	-	-	-	-
\$3.70 and under \$3.80	-	-	6.1	-	-	4.7	-	-	-	-
\$3.80 and under \$3.90	-	-	-	-	18.5	-	18.8	-	-	-
\$3.90 and under \$4.00	-	-	1.2	-	-	-	-	-	-	-
\$4.00 and under \$4.20	-	17.4	25.6	12.9	7.4	6.3	37.5	19.0	23.1	10.8
\$4.20 and under \$4.40	-	4.3	-	-	-	-	-	28.6	-	10.8
\$4.40 and under \$4.60	-	8.7	2.4	3.2	-	39.1	-	-	11.5	-
\$4.60 and under \$4.80	-	13.0	6.1	6.5	18.5	-	25.0	2.4	-	-
\$4.80 and under \$5.00	-	-	1.2	-	-	-	6.3	-	-	-
\$5.00 and under \$5.20	38.1	52.2	9.8	19.4	-	-	-	9.5	19.2	-
\$5.20 and under \$5.40	14.3	-	-	-	-	1.6	6.3	-	1.9	-
\$5.40 and under \$5.60	-	4.3	4.9	9.7	18.5	4.7	-	-	-	-
\$5.60 and under \$5.80	14.3	-	4.9	-	-	1.6	-	-	-	-
\$5.80 and under \$6.00	-	-	2.4	-	-	-	-	-	5.8	-
\$6.00 and under \$6.20	-	-	4.9	3.2	-	1.6	-	4.8	-	16.2
\$6.20 and under \$6.40	-	-	-	16.1	18.5	-	-	14.3	3.8	-
\$6.40 and under \$6.60	-	-	-	9.7	-	3.1	-	-	-	-
\$6.60 and under \$6.80	-	-	-	9.7	-	17.2	-	-	-	-
\$6.80 and under \$7.00	-	-	-	-	-	-	-	-	-	-
\$7.00 and under \$7.20	-	-	1.2	-	-	1.6	-	-	-	8.1
\$7.20 and under \$7.40	-	-	-	-	-	1.6	-	-	-	-
\$7.40 and under \$7.60	-	-	4.9	-	-	6.3	-	-	9.6	2.7
\$7.60 and under \$8.00	-	-	4.9	-	-	-	6.3	2.4	1.9	-
\$8.20 and under \$8.40	-	-	-	-	-	-	-	4.8	7.7	2.7
\$8.60 and under \$8.80	-	-	-	-	-	-	-	-	-	8.1
\$8.80 and under \$9.00	-	-	4.9	-	-	3.1	-	-	1.9	-
\$9.20 and under \$9.40	-	-	2.4	3.2	-	7.8	-	4.8	13.5	-
\$9.60 and under \$9.80	-	-	-	-	-	-	-	-	-	16.2
\$10.20 and under \$10.40	-	-	-	-	-	-	-	-	-	24.3

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts, as well as any commissions earned for the sale of maintenance contracts, parts, or appliances. Premiums paid for licensees, if any, held by employees are included.

² For definitions of areas, see appendix table A-1, footnote 1.

NOTE: Because of rounding, sums of individual items may not equal 100. Dashes indicate no data.

Table 9. Earnings distribution: Electrical appliance apprentice technicians

(Percent distribution of employees in appliance repair shops by straight-time hourly earnings,¹ selected metropolitan areas,² November 1961)

Hourly earnings	Northeast			South	West	
	Boston	New York	Philadelphia	Miami	Los Angeles-Long Beach	San Francisco-Oakland
Number of workers	24	57	29	44	28	28
Average hourly earnings	\$4.57	\$4.71	\$6.95	\$5.12	\$5.83	\$7.36
Total	100.0	100.0	100.0	100.0	100.0	100.0
\$3.35 and under \$3.40	-	14.0	-	-	3.6	-
\$3.40 and under \$3.50	-	7.0	-	-	-	-
\$3.50 and under \$3.60	-	14.0	-	2.3	-	-
\$3.70 and under \$3.80	-	10.5	-	15.9	-	-
\$3.80 and under \$3.90	-	-	-	4.5	-	-
\$3.90 and under \$4.00	-	-	-	-	-	7.1
\$4.00 and under \$4.20	20.8	10.5	-	6.8	-	7.1
\$4.20 and under \$4.40	20.8	-	-	6.8	3.6	10.7
\$4.40 and under \$4.60	25.0	-	-	2.3	-	-
\$4.60 and under \$4.80	16.7	7.0	-	-	-	-
\$5.00 and under \$5.20	8.3	-	44.8	27.3	21.4	-
\$5.20 and under \$5.40	-	-	-	2.3	3.6	-
\$5.40 and under \$5.60	-	-	3.4	11.4	21.4	-
\$5.60 and under \$5.80	8.3	-	-	-	21.4	-
\$5.80 and under \$6.00	-	-	3.4	-	-	-
\$6.00 and under \$6.20	-	-	-	2.3	3.6	-
\$6.20 and under \$6.40	-	17.5	3.4	6.8	-	-
\$6.40 and under \$6.60	-	17.5	-	-	7.1	14.3
\$6.60 and under \$6.80	-	1.8	-	2.3	-	-
\$7.00 and under \$7.20	-	-	-	-	3.6	-
\$7.20 and under \$7.40	-	-	3.4	-	-	10.7
\$7.40 and under \$7.60	-	-	3.4	-	-	-
\$7.60 and under \$8.00	-	-	-	4.5	-	-
\$8.00 and under \$8.20	-	-	-	-	-	10.7
\$8.20 and under \$8.40	-	-	-	-	-	-
\$8.60 and under \$9.00	-	-	3.4	2.3	3.6	-
\$9.00 and under \$9.20	-	-	-	-	-	14.3
\$9.20 and under \$9.40	-	-	-	2.3	7.1	-
\$9.40 and under \$9.60	-	-	34.5	-	-	-
\$9.60 and under \$9.80	-	-	-	-	-	10.7
\$10.00 and under \$10.20	-	-	-	-	-	14.3

¹ Excludes premium pay for overtime and for work on weekends, holidays, and late shifts, as well as any commissions earned for the sale of maintenance contracts, parts, or appliances. Premiums paid for licenses, if any, held by employees are included.

² For definitions of areas, see appendix table A-1, footnote 1.

NOTE: Because of rounding, sums of individual items may not equal 100. Dashes indicate no data.

Table 10. Method of wage payment

(Percent of full-time technicians and apprentices in appliance repair establishments by method of wage payment,¹ selected areas,² November 1981)

Method	Northeast						South					North Central				West			
	Boston	Buffalo	Nassau-Suffolk	Newark	New York	Philadelphia	Atlanta	Dallas-Fort Worth	Memphis	Miami	Washington	Chicago	Cleveland	Kansas City	Minneapolis-St. Paul	St. Louis	Denver-Boulder	Los Angeles-Long Beach	San Francisco-Oakland
All workers	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Time-rated workers	89	90	98	95	100	94	96	94	91	94	81	82	92	98	91	93	80	95	91
Formal plans	55	73	63	64	78	59	72	66	57	72	49	58	58	58	66	55	36	57	63
Single rate	1	20	12	33	22	1	2	-	2	1	2	(?)	9	-	5	3	-	-	1
Range of rates	55	54	51	31	54	58	70	66	55	70	47	58	47	58	61	52	36	57	62
Individual rates	34	17	36	31	24	35	24	28	34	22	32	34	37	38	25	38	43	37	28
Incentive workers	11	10	2	5	-	6	4	6	9	6	19	8	8	4	9	7	20	5	9
Flat-rate hours	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2	-	(?)	5
Group piecework	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flat-rate percentage of labor cost charged to the customer	5	2	-	2	-	2	4	-	4	1	16	3	3	2	6	4	6	4	5
Group bonus	-	-	-	-	-	2	-	-	-	3	-	-	-	-	-	-	-	(?)	-
Individual bonus	6	8	2	3	-	2	-	4	4	2	3	5	5	2	3	1	14	1	-

¹ For definition of method of wage payment, see appendix A.

² For definitions of areas, see appendix table A-1, footnote 1.

³ Less than 0.5 percent.

NOTE: Because of rounding, sums of individual items may not equal totals.

Table 11. Minimum entrance rates: Television-radio technicians

(Number of establishments studied by formal minimum hourly entrance rate¹ for television-radio technicians, appliance repair shops, 19 metropolitan areas,² November 1981)

Minimum rate	Northeast						South					North Central					West		
	Boston	Buffalo	Nassau-Suffolk	Newark	New York	Philadelphia	Atlanta	Dallas-Fort Worth	Memphis	Miami	Washington	Chicago	Cleveland	Kansas City	Minneapolis-St. Paul	St. Louis	Denver-Boulder	Los Angeles-Long Beach	San Francisco-Oakland
Number of establishments studied	29	25	30	28	52	28	20	29	18	30	33	30	25	23	28	26	31	40	35
Establishments having workers in the category	19	20	19	18	34	19	15	22	14	19	25	22	21	15	18	22	22	30	23
Establishments having a specified minimum	9	8	4	5	12	5	5	9	2	6	5	12	3	8	7	4	13	12	5
Under \$4.00	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$4.00 and under \$4.20	-	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-
\$4.20 and under \$4.40	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$4.40 and under \$4.60	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
\$4.60 and under \$4.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
\$4.80 and under \$5.00	-	-	-	-	1	-	-	-	-	1	-	-	-	1	-	-	1	1	-
\$5.00 and under \$5.20	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
\$5.20 and under \$5.40	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
\$5.40 and under \$5.60	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
\$5.60 and under \$5.80	-	1	-	-	-	1	-	2	-	-	1	-	-	-	-	-	-	1	-
\$5.80 and under \$6.00	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	1	-	-
\$6.00 and under \$6.20	1	1	-	-	2	-	-	-	-	-	-	4	-	2	1	-	-	1	-
\$6.20 and under \$6.40	1	-	-	-	-	-	-	2	-	-	1	-	-	-	1	-	1	1	-
\$6.40 and under \$6.60	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	1	1
\$6.60 and under \$6.80	-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	2	-	-
\$6.80 and under \$7.00	-	-	1	-	1	-	1	-	-	-	-	-	1	-	-	-	-	-	-
\$7.00 and under \$7.20	2	-	-	-	-	1	1	-	-	1	-	-	1	-	1	-	1	1	-
\$7.20 and under \$7.40	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
\$7.40 and under \$7.60	1	-	1	1	3	-	-	-	1	-	1	1	-	-	2	-	3	-	-
\$7.60 and under \$7.80	-	-	-	-	-	-	1	1	-	-	1	1	-	1	-	1	-	-	1
\$7.80 and under \$8.00	-	-	-	-	-	1	-	-	-	1	-	2	-	-	-	-	-	1	-
\$8.00 and under \$8.20	-	-	-	2	1	-	1	-	-	-	1	-	-	-	-	-	-	1	-
\$8.20 and under \$8.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
\$8.40 and under \$8.60	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1
\$8.60 and under \$8.80	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
\$8.80 and under \$9.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$9.00 and under \$9.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$9.20 and under \$9.40	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
\$9.40 and under \$9.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$9.60 and under \$9.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$9.80 and under \$10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$10.00 and under \$10.20	-	1	1	1	1	1	1	1	-	1	-	1	1	1	1	1	1	1	-
\$10.20 and under \$10.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$10.40 and under \$10.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$10.60 and under \$10.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$10.80 and under \$11.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

¹ Minimum entrance rate refers to the lowest formal hiring rates established for journeyman technicians.² For definitions of areas, see appendix table A-1, footnote 1.

Table 12. Minimum entrance rates: Electrical appliance technicians

(Number of establishments studied by formal minimum hourly entrance rate¹ for electrical appliance technicians, appliance repair shops, 19 metropolitan areas,² November 1981)

Minimum rate	Northeast						South					North Central					West		
	Boston	Buffalo	Nassau-Suffolk	Newark	New York	Philadelphia	Atlanta	Dallas-Fort Worth	Memphis	Miami	Washington	Chicago	Cleveland	Kansas City	Minneapolis-St. Paul	St. Louis	Denver-Boulder	Los Angeles-Long Beach	San Francisco-Oakland
Number of establishments studied	29	25	30	28	52	28	20	29	18	30	33	30	25	23	28	26	31	40	35
Establishments having workers in the category	15	12	17	15	23	19	11	14	10	16	14	16	8	12	16	13	14	20	16
Establishments having a specified minimum	10	5	7	5	12	5	5	8	1	6	3	10	4	5	5	4	10	8	3
\$4.00 and under \$4.20	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$4.20 and under \$4.40	-	-	1	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$4.40 and under \$4.60	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
\$4.60 and under \$4.80	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$4.80 and under \$5.00	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
\$5.00 and under \$5.20	-	-	-	1	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-
\$5.20 and under \$5.40	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$5.40 and under \$5.60	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$5.60 and under \$5.80	-	-	-	-	-	-	-	2	-	-	1	1	-	-	-	-	-	1	-
\$5.80 and under \$6.00	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-
\$6.00 and under \$6.20	1	1	-	-	1	-	-	-	-	1	-	2	-	2	1	-	2	-	-
\$6.20 and under \$6.40	1	-	-	-	-	-	-	1	-	-	1	-	-	-	1	-	-	1	-
\$6.40 and under \$6.60	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1
\$6.60 and under \$6.80	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	1	-	-
\$6.80 and under \$7.00	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
\$7.00 and under \$7.20	1	-	-	-	-	1	1	1	-	1	-	-	1	-	1	-	1	2	-
\$7.20 and under \$7.40	1	1	2	2	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-
\$7.40 and under \$7.60	-	-	1	1	3	-	-	-	1	-	-	-	-	-	1	-	1	-	-
\$7.60 and under \$7.80	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	1	-	-	1
\$7.80 and under \$8.00	-	-	1	-	1	-	-	-	-	1	-	2	-	-	-	-	-	2	-
\$8.00 and under \$8.20	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-
\$8.20 and under \$8.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
\$8.40 and under \$8.60	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
\$8.60 and under \$8.80	2	-	-	-	-	1	1	-	-	-	-	1	1	-	-	-	-	-	-
\$8.80 and under \$9.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$9.00 and under \$9.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$9.20 and under \$9.40	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
\$9.40 and under \$9.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$9.60 and under \$9.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$9.80 and under \$10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$10.00 and under \$10.20	-	1	1	-	1	1	1	1	-	1	-	1	1	1	1	1	1	1	-
\$10.20 and under \$10.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$10.40 and under \$10.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
\$10.60 and over	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1

¹ Minimum entrance rate refers to the lowest formal hiring rates established for journeymen technicians.² For definitions of areas, see appendix table A-1, footnote 1.

NOTE: Because of rounding, sums of individual items may not equal totals.

Table 13. Scheduled weekly hours

(Percent of full-time technicians and apprentices in appliance repair establishments by scheduled weekly hours,¹ selected areas,² November 1981)

Weekly hours	Northeast						South					North Central					West		
	Boston	Buffalo	Nassau-Suffolk	Newark	New York	Philadelphia	Atlanta	Dallas-Fort Worth	Memphis	Miami	Washington	Chicago	Cleveland	Kansas City	Minneapolis-St. Paul	St. Louis	Denver-Boulder	Los Angeles-Long Beach	San Francisco-Oakland
All workers	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Under 37.5 hours	1	-	-	-	3	-	1	1	-	-	-	-	-	-	-	-	-	-	2
37.5 hours	-	-	-	-	2	-	-	1	-	-	-	-	2	-	-	8	-	1	-
39 hours	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40 hours	95	92	99	100	92	99	99	95	84	98	95	88	89	90	97	86	90	96	98
Over 40 and under 45 hours	3	7	1	-	-	1	-	2	4	(?)	1	3	9	2	-	4	8	2	-
45 hours	1	-	-	-	-	1	-	-	-	-	-	-	-	5	3	2	2	-	-
46 hours	-	1	-	-	2	-	-	1	12	1	4	9	-	2	-	-	-	1	-

¹ Data relate to the predominant schedule for full-time day-shift workers in each establishment.² For definitions of areas, see appendix table A-1, footnote 1.³ Less than 0.5 percent.

NOTE: Because of rounding, sums of individual items may not equal 100. Dashes indicate no data.

Table 14. Paid holidays

(Percent of full-time technicians and apprentices in appliance repair establishments with formal provisions for paid holidays, selected areas,¹ November 1981)

Number of paid holidays	Northeast						South					North Central					West		
	Boston	Buffalo	Nassau-Suffolk	Newark	New York	Philadelphia	Atlanta	Dallas-Fort Worth	Memphis	Miami	Washington	Chicago	Cleveland	Kansas City	Minneapolis-St. Paul	St. Louis	Denver-Boulder	Los Angeles-Long Beach	San Francisco-Oakland
All workers	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing paid holidays	100	97	100	100	100	99	100	100	98	95	88	100	100	99	94	100	97	97	95
Less than 6 days	-	2	5	1	5	2	18	24	28	3	12	-	-	4	1	1	-	5	1
6 days	5	39	18	23	17	15	8	4	5	20	15	31	40	22	26	38	41	28	1
6 days plus 1, 2 or 3 half days	1	-	1	-	-	1	-	-	1	-	-	4	2	5	4	-	3	-	4
7 days	9	5	2	11	8	(?)	-	9	-	2	7	2	2	20	12	-	21	10	7
7 days plus 1, 2, 3, or 4 half days	7	-	-	-	-	4	1	3	2	(?)	-	(?)	-	-	-	1	-	-	3
8 days	-	-	5	1	6	12	2	3	1	21	1	5	8	10	4	4	10	6	16
8 days plus 1 or 2 half days	3	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-	-
9 days	14	2	5	1	4	3	8	2	5	1	9	-	-	1	5	-	1	-	2
9 days plus 1 or 2 half days	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
10 days	11	10	16	5	17	20	18	18	-	15	10	16	17	15	13	27	10	10	24
10 days plus 1 or 2 half days	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 days	36	32	35	32	26	38	44	38	55	32	35	31	28	22	29	25	11	38	29
12 days	14	-	2	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-
12 days plus 1 half day	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-
13 days	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	4	-	-	7
14 days	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
15 days	-	8	12	25	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-

¹ For definitions of areas, see appendix table A-1, footnote 1.² Less than 0.5 percent.

NOTE: Because of rounding, sums of individual items may not equal totals.

Table 15. Paid vacations

(Percent of full-time technicians and apprentices in appliance repair establishments with formal provisions for paid vacations after selected periods of service, selected areas,¹ November 1981)

Vacation policy	Northeast						South					North Central					West		
	Boston	Buffalo	Nassau-Suffolk	Newark	New York	Philadelphia	Atlanta	Dallas-Fort Worth	Memphis	Miami	Washington	Chicago	Cleveland	Kansas City	Minneapolis-St. Paul	St. Louis	Denver-Boulder	Los Angeles-Long Beach	San Francisco-Oakland
All workers	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Method of payment																			
Workers in establishments providing paid vacations	100	100	100	100	100	100	100	98	100	96	96	100	100	99	96	98	99	100	97
Length-of-time payment	100	100	100	100	100	100	98	96	100	95	87	98	87	99	96	98	82	97	95
Percentage payment	-	-	-	-	-	-	4	-	-	-	1	-	8	-	-	-	13	-	2
Flat sum	-	-	-	-	-	-	-	-	-	2	8	2	-	-	-	-	4	3	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-
Amount of vacation pay²																			
After 6 months of service:																			
Under 1 week	8	-	4	4	9	-	-	-	-	-	4	4	-	2	5	-	4	-	-
1 week	8	31	23	10	28	26	20	16	4	22	11	14	10	15	9	28	7	13	29
Over 1 and under 2 weeks	8	-	-	-	-	-	-	6	-	-	-	-	1	14	12	-	13	2	-
2 weeks	5	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
After 1 year of service:																			
Under 1 week	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	3	-	-
1 week	34	34	30	33	36	36	31	22	39	46	26	28	53	31	38	28	39	37	24
Over 1 and under 2 weeks	-	-	-	-	1	-	4	2	-	-	5	(?)	-	-	-	-	4	1	2
2 weeks	66	66	70	67	63	64	66	75	61	50	57	69	47	66	57	70	51	59	71
Over 2 and under 3 weeks	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	2	-
After 2 years of service:																			
1 week	16	10	9	13	11	20	9	5	10	11	12	4	24	9	14	9	8	18	4
Over 1 and under 2 weeks	-	-	-	-	-	2	-	4	-	-	-	1	2	3	1	-	2	1	2
2 weeks	84	90	91	87	89	79	86	89	90	85	78	93	74	87	81	89	85	78	91
Over 2 and under 3 weeks	-	-	-	-	-	-	5	-	-	-	6	(?)	-	-	-	-	4	2	-
After 3 years of service:																			
1 week	9	6	9	6	7	18	4	5	2	7	10	1	19	2	9	9	4	7	2
Over 1 and under 2 weeks	-	-	-	-	-	(?)	-	4	-	-	1	-	2	-	1	-	-	1	2
2 weeks	86	94	91	94	93	82	91	89	95	88	79	97	78	97	86	85	88	90	90
Over 2 and under 3 weeks	-	-	-	-	-	-	5	-	-	-	6	(?)	2	-	-	-	4	2	-
3 weeks	3	-	-	-	-	-	-	-	3	1	-	-	-	-	-	4	3	-	3
After 5 years of service:																			
1 week	1	4	5	(?)	4	8	1	5	2	7	2	-	2	1	1	7	4	7	1
Over 1 and under 2 weeks	-	-	-	-	-	(?)	-	3	-	-	6	-	10	-	1	-	-	1	2
2 weeks	76	82	78	61	75	79	75	79	95	59	78	84	74	82	78	67	67	83	77
Over 2 and under 3 weeks	14	8	14	27	9	7	16	8	-	7	6	7	2	7	8	9	10	-	-
3 weeks	7	6	3	11	12	5	8	3	3	23	4	7	13	9	8	15	18	9	17
4 weeks	3	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 15. Paid vacations—Continued

(Percent of full-time technicians and apprentices in appliance repair establishments with formal provisions for paid vacations after selected periods of service, selected areas,¹ November 1981)

Vacation policy	Northeast						South					North Central					West		
	Boston	Buffalo	Nassau-Suffolk	Newark	New York	Philadelphia	Atlanta	Dallas-Fort Worth	Memphis	Miami	Washington	Chicago	Cleveland	Kansas City	Minneapolis-St. Paul	St. Louis	Denver-Boulder	Los Angeles-Long Beach	San Francisco-Oakland
Amount of vacation pay ² —Continued																			
After 10 years of service:																			
1 week	1	4	5	(³)	4	8	1	5	2	7	2	-	2	1	1	7	1	7	1
Over 1 and under 2 weeks	-	-	-	-	-	-	-	2	-	-	6	-	8	-	-	-	3	1	2
2 weeks	23	14	19	17	30	14	18	20	26	15	24	28	30	33	25	25	32	24	11
Over 2 and under 3 weeks	-	4	-	-	2	(³)	4	-	-	-	3	-	-	-	1	-	4	-	-
3 weeks	71	78	75	81	80	77	71	72	70	65	57	72	60	65	70	63	58	65	82
Over 3 and under 4 weeks	-	-	-	-	-	-	5	-	-	-	-	(³)	-	-	-	-	-	2	-
4 weeks	5	-	-	1	3	-	-	-	2	9	4	-	-	-	-	4	2	1	1
After 12 years of service:																			
1 week	1	4	5	(³)	4	8	1	5	2	7	2	-	2	1	1	7	1	7	1
Over 1 and under 2 weeks	-	-	-	-	-	-	-	2	-	-	6	-	8	-	-	-	3	1	2
2 weeks	23	14	19	16	30	14	18	20	26	15	24	25	30	33	25	21	32	24	11
Over 2 and under 3 weeks	-	4	-	-	2	(³)	4	-	-	-	3	-	-	-	-	4	4	-	-
3 weeks	65	78	76	82	58	77	71	72	70	65	57	73	59	65	71	63	58	65	82
Over 3 and under 4 weeks	-	-	-	-	-	-	5	-	-	-	-	(³)	2	-	-	-	-	2	-
4 weeks	11	-	-	1	5	-	-	-	2	9	4	-	-	-	-	4	2	-	1
Over 4 and under 5 weeks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
After 15 years of service:																			
1 week	1	4	5	(³)	4	8	1	5	2	7	2	-	2	1	1	7	1	7	1
Over 1 and under 2 weeks	-	-	-	-	-	-	-	2	-	-	6	-	-	-	-	-	3	1	2
2 weeks	23	14	19	16	30	14	18	19	24	14	24	23	34	33	23	18	32	24	11
Over 2 and under 3 weeks	-	4	-	-	-	(³)	4	-	-	-	3	-	-	-	-	-	4	-	-
3 weeks	26	16	14	22	19	18	8	16	17	9	13	26	18	19	24	15	33	18	28
Over 3 and under 4 weeks	-	-	-	-	1	-	5	-	-	-	-	-	7	-	-	-	-	-	-
4 weeks	50	61	61	62	45	59	64	57	56	66	48	48	40	46	48	59	27	47	55
Over 4 and under 5 weeks	-	-	-	-	-	-	-	-	-	-	-	(³)	-	-	-	-	-	2	-
5 weeks	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-
After 20 years of service:																			
1 week	1	4	5	(³)	4	8	1	5	2	7	2	-	2	1	1	7	1	7	1
Over 1 and under 2 weeks	-	-	-	-	-	-	-	2	-	-	6	-	-	-	-	-	3	1	2
2 weeks	23	14	19	16	30	14	18	19	24	14	24	23	34	33	23	18	32	24	11
Over 2 and under 3 weeks	-	-	-	-	-	(³)	4	-	-	-	3	-	-	-	-	-	4	-	-
3 weeks	20	17	13	22	14	14	5	4	17	6	4	11	14	4	9	8	13	10	20
4 weeks	56	64	63	62	51	63	66	69	56	69	55	63	49	61	63	65	47	56	58
Over 4 and under 5 weeks	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-
5 weeks	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	-	1	5
Over 5 and under 6 weeks	-	-	-	-	-	-	-	-	-	-	-	(³)	-	-	-	-	-	2	-

See footnotes at end of table.

Table 15. Paid vacations—Continued

(Percent of full-time technicians and apprentices in appliance repair establishments with formal provisions for paid vacations after selected periods of service, selected areas,¹ November 1981)

Vacation policy	Northeast						South					North Central					West		
	Boston	Buffalo	Nassau-Suffolk	Newark	New York	Philadelphia	Atlanta	Dallas-Fort Worth	Memphis	Miami	Washington	Chicago	Cleveland	Kansas City	Minneapolis-St. Paul	St. Louis	Denver-Boulder	Los Angeles-Long Beach	San Francisco-Oakland
Amount of vacation pay²—Continued																			
After 25 years of service:																			
1 week	1	4	5	(³)	4	8	1	5	2	7	2	-	2	1	1	7	1	7	1
Over 1 and under 2 weeks	-	-	-	-	-	-	-	2	-	-	6	-	-	-	-	-	3	1	2
2 weeks	23	14	19	16	30	14	18	19	24	14	24	23	25	33	23	18	32	24	11
Over 2 and under 3 weeks	-	-	-	-	-	(³)	4	-	-	-	3	-	8	-	-	-	4	-	-
3 weeks	20	17	13	22	14	14	5	4	17	5	4	11	14	4	9	6	13	10	20
4 weeks	17	16	5	3	12	6	5	8	1	23	4	8	12	10	5	24	15	9	2
Over 4 and under 5 weeks	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-
5 weeks	39	48	57	58	39	57	62	61	56	47	53	55	38	51	57	44	33	48	60
Over 5 and under 6 weeks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
6 weeks	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
Over 6 and under 7 weeks	-	-	-	-	-	-	-	-	-	-	-	(³)	-	-	-	-	-	-	-
After 30 years of service:⁴																			
1 week	1	4	5	(³)	4	8	1	5	2	7	2	-	2	1	1	7	1	7	1
Over 1 and under 2 weeks	-	-	-	-	-	-	-	2	-	-	6	-	-	-	-	-	3	1	2
2 weeks	23	14	19	16	30	14	18	19	24	14	24	23	25	33	23	18	32	24	11
Over 2 and under 3 weeks	-	-	-	-	-	(³)	4	-	-	-	3	-	-	-	-	-	4	-	-
3 weeks	20	17	13	22	14	14	5	4	17	5	4	11	23	4	9	6	13	10	20
4 weeks	17	16	5	3	12	6	5	8	1	23	4	5	12	10	5	24	15	6	2
Over 4 and under 5 weeks	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-
5 weeks	25	37	45	33	30	50	51	46	56	40	50	41	38	30	37	34	21	49	60
Over 5 and under 6 weeks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
6 weeks	14	11	12	25	9	7	11	15	-	7	3	18	-	21	21	9	12	2	-
7 weeks	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
Over 7 weeks	-	-	-	-	-	-	-	-	-	-	-	(³)	-	-	-	-	-	-	-

¹ For definitions of areas, see appendix table A-1, footnote 1.² Vacation payments, such as percent of annual earnings, were converted to an equivalent time basis. Periods of service were chosen arbitrarily and do not necessarily reflect individual establishment provisions for progression. For example, changes indicated at 10 years may include changes that occurred between 5 and 10 years.³ Less than 0.5 percent.⁴ Vacation provisions were the same after longer periods of service.

NOTE: Because of rounding, sums of individual items may not equal totals.

Table 16. Health, insurance, and retirement plans

(Percent of full-time technicians and apprentices in appliance repair establishments with specified health, insurance, and retirement plans,¹ selected areas,² November 1981)

Type of plan	Northeast						South					North Central					West		
	Boston	Buffalo	Nassau-Suffolk	Newark	New York	Philadelphia	Atlanta	Dallas-Fort Worth	Memphis	Miami	Washington	Chicago	Cleveland	Kansas City	Minneapolis-St. Paul	St. Louis	Denver-Boulder	Los Angeles-Long Beach	San Francisco-Oakland
All workers	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Workers in establishments providing:																			
Life insurance	67	69	77	80	69	90	100	96	85	94	82	88	77	82	90	70	92	81	70
Noncontributory plans	36	40	43	45	46	52	43	53	12	45	18	50	44	55	57	42	58	40	31
Accidental death and																			
dismemberment insurance	34	30	28	23	33	38	51	34	18	47	44	46	45	39	47	32	78	39	41
Noncontributory plans	34	30	26	15	30	36	41	31	12	30	16	31	42	36	42	26	55	36	31
Sickness and accident insurance or																			
sick leave or both ³	90	74	84	83	83	86	88	87	76	79	85	71	82	72	88	79	88	78	72
Sickness and accident																			
insurance	26	25	31	39	31	33	29	19	3	26	27	31	43	35	41	23	43	16	26
Noncontributory plans	26	21	31	39	30	33	20	11	3	17	9	25	41	15	23	23	21	14	19
Sick leave (full pay, no waiting																			
period)	65	40	45	50	64	40	23	34	16	37	25	20	32	26	32	36	48	35	36
Sick leave (partial pay or																			
waiting period)	25	30	35	28	18	40	51	40	60	38	38	33	30	30	35	39	21	39	29
Long-term disability insurance	50	32	36	34	25	52	48	45	59	33	58	49	39	38	51	26	33	39	41
Noncontributory plans	11	-	3	1	7	6	1	1	4	1	4	2	2	-	3	4	2	2	-
Hospitalization insurance	92	87	93	93	90	95	97	96	91	94	89	95	93	88	94	89	96	92	92
Noncontributory plans	43	45	55	51	61	50	35	43	11	40	16	39	51	31	42	52	27	44	44
Surgical insurance	92	87	93	93	90	95	97	96	91	94	89	95	91	88	94	89	96	92	92
Noncontributory plans	43	45	55	51	61	50	35	43	11	40	16	39	50	31	42	52	27	44	44
Medical insurance	66	58	57	64	72	57	53	58	36	61	55	64	63	66	67	64	85	57	62
Noncontributory plans	43	45	52	51	61	50	35	43	11	40	16	39	50	31	42	52	27	44	44
Major medical insurance	89	86	81	89	82	92	97	96	91	94	89	89	90	87	94	81	96	92	92
Noncontributory plans	43	43	43	44	54	48	35	43	11	40	16	44	49	30	41	44	27	44	44
Retirement plans ⁴	57	66	66	67	56	81	75	70	62	69	57	63	54	69	66	65	62	61	64
Pensions	54	66	66	62	56	77	75	70	62	68	57	63	54	66	66	65	62	59	64
Noncontributory plans	39	43	45	32	38	54	54	51	59	46	44	40	45	37	40	42	47	48	37
Severance pay	4	-	-	6	-	4	-	-	-	8	-	-	-	17	12	-	12	3	-
No plans	3	12	6	7	8	4	-	4	3	6	4	3	-	5	3	11	4	6	8

¹ Includes those plans for which the employer pays at least part of the cost and excludes legally required plans such as workers' compensation and social security; however, plans required by State temporary disability insurance laws are included if the employer contributes more than is legally required or employees receive benefits over legal requirements. "Noncontributory plans" include only those plans financed entirely by the employer.

² For definitions of areas, see appendix table A-1, footnote 1.

³ Unduplicated total of workers receiving sickness and accident insurance and sick leave shown separately.

⁴ Unduplicated total of workers covered by pension plans and severance pay shown separately.

Table 17. Other selected benefits

(Percent of full-time technicians and apprentices in appliance repair establishments with formal provisions for other selected benefits, ¹ selected areas, ² November 1981)

Benefit	Northeast						South					North Central					West		
	Boston	Buffalo	Nassau-Suffolk	Newark	New York	Philadelphia	Atlanta	Dallas-Fort Worth	Memphis	Miami	Washington	Chicago	Cleveland	Kansas City	Minneapolis-St. Paul	St. Louis	Denver-Boulder	Los Angeles-Long Beach	San Francisco-Oakland
Workers in establishment with provisions for:																			
Funeral leave	96	70	72	72	57	80	75	80	74	85	65	70	67	96	70	75	81	63	64
Jury-duty leave	88	81	85	70	80	77	67	79	88	79	66	70	64	88	75	86	60	66	62
Commissions paid for the sale of:																			
Maintenance contracts	50	19	28	30	31	70	10	56	16	25	52	36	20	38	29	31	34	57	50
Parts	1	8	16	(³)	16	15	8	11	2	14	1	17	14	14	8	9	7	14	19
Appliances (including televisions, radios, etc.)	4	2	1	-	2	7	-	1	4	6	17	3	2	2	6	4	6	2	1
Employers provide:																			
Uniforms	73	39	74	63	41	51	64	65	77	52	50	56	44	41	60	40	28	50	41
Cleaning only	-	-	-	-	1	-	-	-	-	(³)	-	-	-	-	-	-	-	-	-
Uniforms and cleaning	2	12	1	4	5	-	3	6	2	5	4	1	4	2	5	1	25	18	8
Monetary allowance	-	14	-	8	4	2	3	2	4	5	5	8	2	21	4	4	5	5	-
No uniforms provided	5	4	-	-	-	-	-	1	3	10	1	1	2	3	-	2	-	4	1
Uniforms not required	19	31	25	25	49	46	30	27	14	27	39	34	47	32	31	53	42	23	50

¹ For definition of items, see appendix A.

² For definitions of areas, see appendix table A-1, footnote 1.

³ Less than 0.5 percent.

24

Appendix A. Scope and Method of Survey

Scope of survey

The survey included the appliance repair facilities of establishments classified in the following industry groups, as defined in the 1972 *Standard Industrial Classification Manual*, prepared by the U.S. Office of Management and Budget: *Wholesale trade* (5064)—electrical appliances, television and radio sets; *retail trade* (5311, 5732, and part of 5722)—department stores, radio and television stores, and household appliance stores; and *services* (part of 762)—electrical repair shops primarily engaged in the repair of major electrical appliances, such as stereos, refrigerators, television sets, and washers.

The universe of establishments in the above industries was refined to include only those establishments which had at least one employee involved in repairing major electrical household appliances. Appliance repair facilities owned and operated by public utilities were excluded. The number of establishments and workers actually studied by the Bureau, as well as the number estimated to be within the scope of the survey during the payroll period studied, is shown in table A-1.

Method of study

Data were obtained by personal visits of the Bureau's field representatives to a probability-based sample of establishments within the scope of the survey. To obtain appropriate accuracy at minimum cost, a greater proportion of large establishments than of small establishments was studied. In combining the data, each establishment was given an appropriate weight. All estimates are presented, therefore, as relating to all establishments in the industry.

Establishment definition

An establishment is defined for this study as all outlets of a company within a specified area.

Employment

Estimates of the number of workers within the scope of the study are intended as a general guide to the size and composition of the industry's labor force, rather than as precise measures of employment.

Nonsupervisory service workers

The term "nonsupervisory service workers," as used in this bulletin, includes all nonsupervisory, nonoffice

workers engaged in the major appliance service (repair) function in the establishment.

Occupational classification

Occupational classification was based on a uniform set of job descriptions designed to take account of inter-establishment and interarea variations in duties within the same job. (See appendix B for these descriptions.) The criteria for selection of the occupations were: The number of workers in the occupation; the usefulness of the data in collective bargaining; and appropriate representation of the entire job scale in the industry. Working supervisors and handicapped and temporary workers were excluded.

Wage data

Information on wages relates to straight-time hourly earnings, excluding premium pay for overtime and for work on weekends, holidays, and late shifts, as well as commissions paid on sales of maintenance contracts, parts, or appliances. Premiums paid for licenses held by employees, if any, are included. Incentive payments, such as those based on flat-rate hours, flat-rate percentages or other piecework or production bonus systems, and cost-of-living bonuses were included as part of the workers' regular pay. Nonproduction bonus payments, such as Christmas or yearend bonuses, were excluded.

Average (mean) hourly rates or earnings for each occupation were calculated by weighting each rate (or hourly earnings) by the number of workers receiving the rate, totaling, and dividing by the number of individuals. The hourly earnings of salaried workers, if any, were obtained by dividing straight-time salary by normal (or standard) hours to which the salary corresponds.

The *median* designates position; that is, one-half of the employees surveyed received more than this rate and one-half received less. The *middle range* is defined by two rates of pay such that one-fourth of the employees earned less than the lower of these rates and one-fourth earned more than the higher rate.

Method of wage payment

Tabulations by method of wage payment relate to the number of workers paid under the various time and incentive wage systems. Formal rate structures for time-rated workers provide either single rates or a range of

rates for individual job categories. In the absence of a formal rate structure, pay rates are determined primarily by the qualifications of the individual worker. A single rate structure is one in which the same rate is paid to all experienced workers in the same job classification. An individual worker occasionally may be paid above or below the single rate for special reasons, but such payments are exceptions. Range-of-rate plans are those in which the minimum, maximum, or both of these rates paid for the same job are specified. Specific rates of individual workers within the range may be determined by merit, length of service, or a combination of these. Incentive workers are classified under piecework, bonus plans, flat-rate hours, or flat-rate percentage plans. Piecework is work for which a predetermined rate is paid for each unit of output. Production bonuses are for production over a quota or for completion of a task in less than standard time. Flat-rate hours is a method of pay computed by multiplying the number of hours established for the job by an hourly rate, regardless of the time actually required to complete the work. Flat-rate percentage is a stipulated percentage of the labor cost charged to the customer.

Minimum rates

Minimum entrance rates are the lowest formal minimum entrance or hiring rates for journeyman (qualified) technicians.

Scheduled weekly hours

Data on weekly hours refer to the predominant work schedule for full-time technicians and apprentices employed on the day shift.

Establishment practices and supplementary wage provisions

Supplementary benefits in an establishment were considered applicable to all technicians and apprentices if they applied to half or more of such workers in the establishment. Similarly, if fewer than half of the workers were covered, the benefit was considered nonexistent in the establishment. Because of length-of-service and other eligibility requirements, the proportion of workers receiving the benefits may be smaller than estimated.

Paid holidays. Paid holiday provisions relate to full-day and half-day holidays provided annually.

Paid vacations. The summary of vacation plans is limited to formal arrangements and excludes informal plans whereby time off with pay is granted at the discretion of the employer or supervisor. Methods for determining the amount of vacation pay employees receive include: (1) percent of earnings; (2) time, e.g., regular pay for time off; (3) flat sum of money which does not equal the employee's regular pay; or (4) other methods, principally combinations of two or more plans. Payments

not on a time basis were converted; for example, a payment of 2 percent of annual earnings was considered the equivalent of 1 week's pay. The periods of service for which data are presented represent the most common practices, but they do not necessarily reflect individual establishment provisions for progression. For example, changes in proportions indicated at 10 years of service may include changes which occurred between 5 and 10 years.

Health, insurance, and retirement plans. Data are presented for health, insurance, pension, and retirement severance plans for which the employer pays all or a part of the cost, excluding programs required by law such as workers' compensation and social security. Among plans included are those underwritten by a commercial insurance company and those paid directly by the employer from current operating funds or from a fund set aside for this purpose.

Death benefits are included as a form of life insurance. Sickness and accident insurance is limited to that type of insurance under which predetermined cash payments are made directly to the insured on a weekly or monthly basis during illness or accident disability. Information is presented for all such plans to which the employer contributes at least a part of the cost. However, in New York and New Jersey, where temporary disability insurance laws require employer contributions,¹ plans are included only if the employer (1) contributes more than is legally required, or (2) provides the employees with benefits which exceed the requirements of the law.

Tabulations of paid sick leave plans are limited to formal plans which provide full pay or a proportion of the worker's pay during absence from work because of illness; informal arrangements have been omitted. Separate tabulations are provided for (1) plans which provide full pay and no waiting period, and (2) plans providing either partial pay or a waiting period.

Long-term disability insurance plans provide payments to totally disabled employees upon the expiration of sick leave, sickness and accident insurance, or both, or after a specified period of disability (typically 6 months). Payments are made until the end of disability, a maximum age, or eligibility for retirement benefits. Payments may be full or partial, but are almost always reduced by social security, workers' compensation, and private pension benefits payable to the disabled employee.

Medical insurance refers to plans providing for complete or partial payment of doctors' fees. Such plans may be underwritten by a commercial insurance company or a nonprofit organization, or they may be a form of self-insurance.

¹The temporary disability insurance laws in California and Rhode Island do not require employer contributions.

Major medical insurance, sometimes referred to as extended medical or catastrophe insurance, includes plans designed to cover employees for sickness or injury involving an expense which exceeds the normal coverage of hospitalization, medical, and surgical plans.

Tabulations of retirement pensions are limited to plans which provide regular payments for the remainder of the retiree's life. Data are presented separately for retirement severance pay (one payment or several over a specified period of time) made to employees on retirement. Establishments providing both retirement severance payments and retirement pensions to employees were considered as having both retirement pensions and retirement severance plans; however, establishments having optional plans providing employees a choice of

either retirement severance payments or pensions were considered as having only retirement pension benefits.

Paid funeral and jury-duty leave. Data for paid funeral and jury-duty leave relate to formal plans which provide at least partial payment for time lost as a result of attending funerals of specified family members or serving as a juror.

Commissions. Data refer to formal plans providing the employee with monetary payments for the sale of maintenance contracts, parts, or appliances.

Uniform allowances. Data relate to formal provisions for uniforms worn in lieu of or over the employee's personal clothing.

Table A-1. Estimated number of establishments and employees within scope of survey and number studied, appliance repair facilities, November 1981

Area ¹	Number of establishments ²		Workers in establishments		
	Within scope of study	Actually studied	Within scope of study		Nonsupervisory service workers actually studied ³
			Nonsupervisory service workers ⁴	Production workers	
Total, 19 areas	1,632	560	16,635	12,913	11,995
Northeast					
Boston	62	29	405	341	284
Buffalo	39	25	291	235	262
Nassau-Suffolk	75	30	841	568	609
Newark	51	28	512	430	429
New York	216	52	1,736	1,499	1,096
Philadelphia	115	28	1,365	1,033	996
South					
Atlanta	51	20	632	496	539
Dallas-Fort Worth	90	29	1,023	771	785
Memphis	27	18	287	201	243
Miami	53	30	742	549	647
Washington	129	33	1,044	833	673
North Central					
Chicago	131	30	2,216	1,641	1,576
Cleveland	60	25	489	412	341
Kansas City	58	23	438	338	344
Minneapolis-St. Paul	76	28	634	420	447
St. Louis	65	26	637	490	505
West					
Denver-Boulder	72	31	523	452	347
Los Angeles-Long Beach	162	40	1,909	1,470	1,363
San Francisco-Oakland	100	35	851	732	503

¹ The areas used in this report are defined as follows: **NORTHEAST:** Boston—Suffolk County, 16 communities in Essex County, 34 in Middlesex County, 26 in Norfolk County, and 12 in Plymouth County; Buffalo—Erie and Niagara Counties; Nassau-Suffolk—Nassau and Suffolk Counties; Newark—Essex, Morris, Somerset, and Union Counties; New York—New York City (Bronx, Kings, New York, Queens, and Richmond Counties) and Putnam, Rockland, and Westchester Counties, N.Y.; and Bergen County, N.J.; Philadelphia—Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa.; and Burlington, Camden, and Gloucester Counties, N.J. **SOUTH:** Atlanta—Butts, Cherokee, Clayton, Cobb, DeKalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Henry, Newton, Paulding, Rockdale, and Walton Counties; Dallas-Fort Worth—Collin, Dallas, Denton, Ellis, Hood, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise Counties; Memphis—Shelby and Tipton Counties, Tenn.; Crittendon County, Ark.; and DeSoto County, Miss.; Miami—Dade County; Washington—The District of Columbia; Charles, Montgomery, and Prince Georges Counties, Md.; and Alexandria, Fairfax, and Falls Church Cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Va. **NORTH CENTRAL:** Chicago—

Cook, DuPage, Kane, Lake, McHenry, and Will Counties; Cleveland—Cuyahoga, Geauga, Lake, and Medina Counties; Kansas City—Cass, Clay, Jackson, Platte, and Ray Counties, Mo.; and Johnson and Wyandotte Counties, Kans.; Minneapolis-St. Paul—Anoka, Carver, Chisago, Dakota, Hennepin, Ramsey, Scott, Washington, and Wright Counties, Minn.; and St. Croix County, Wis.; St. Louis—St. Louis City; Franklin, Jefferson, St. Charles, and St. Louis Counties, Mo.; and Clinton, Madison, Monroe, and St. Clair Counties, Ill., and WEST: Denver-Boulder—Adams, Arapahoe, Boulder, Denver, Douglas, Gilpin, and Jefferson Counties; Los Angeles-Long Beach—Los Angeles County; and San Francisco-Oakland—Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties.

² Includes only those establishments with 1 repair or more at the time of reference of the universe data.

³ Data relate to the total nonsupervisory service worker employment in appliance repair shops visited.

⁴ Includes all nonsupervisory, nonoffice workers engaged in the major appliance repair activities of the establishment.

Appendix B. Occupational Descriptions

The primary purpose of preparing job descriptions for the Bureau's wage surveys is to assist its field representatives in classifying into appropriate occupations workers who are employed under a variety of payroll titles and different work arrangements from establishment to establishment and from area to area. This permits the grouping of occupational wage rates representing comparable job content. Because of this emphasis on interestablishment and interarea comparability of occupational content, the Bureau's job descriptions may differ significantly from those used in individual establishments or those prepared for other purposes. In applying these job descriptions, the Bureau's field representatives are instructed to exclude working supervisors, and handicapped, temporary, and probationary workers.

The titles and the 3- or 4-digit codes below the job titles in this appendix are taken from the 1980 edition of the *Standard Occupational Classification Manual* (SOC), issued by the U.S. Department of Commerce, Office of Federal Statistical Policy and Standards.

In general, the Bureau of Labor Statistics' occupational descriptions are much more specific than those found in the SOC manual. For example, technicians and apprentices carry the same SOC code. Thus, in comparing the results of this survey with other sources, differences in occupational definitions should be taken into consideration.

Television-Radio Technician

(6155: Electronic repairer, home entertainment equipment)

Repairs and adjusts radios, televisions, stereo sets, tape players and tape recorders, either in shop or households, using handtools and electronic testing instruments. Work includes *most of the following*: Tunes sets and adjusts controls to locate source of trouble; tests voltages and resistance of circuits to isolate defects following schematic diagram and using voltmeter, oscilloscope, signal generator, and other electronic testing instruments; tests and changes tubes; solders loose connections; and repairs or replaces defective parts. May install television sets. Includes only qualified technicians servicing consumer products and does not include learners or apprentices assigned to assist technicians.

Excludes technicians who principally repair public address systems, two-way radios, car radios, car tape decks, and similar items not commonly for home use. Also excludes antenna installers.

For wage study purposes, workers were classified as follows:

Full-time

- Inside (bench)
- Outside (home repair)
- Combination

Part-time

- Inside (bench)
- Outside (home repair)
- Combination

Television-Radio Technician Apprentice

(6155: Electronic repairer, home entertainment equipment)

Assists in the repair and adjustment of radios, televisions, and stereo sets, tape players, and tape recorders under the direction of a qualified technician or other supervisor, while in a learning or apprenticeship (either formal or informal) period.

Full-time

Part-time

Electrical Appliance Technician

(6156: Household appliance and power-tool repairer)

Services and repairs major electrical appliances (and the electrical components of gas-operated appliances) such as ranges, refrigerators, freezers, dishwashing machines, disposers, washers, dryers, and window air conditioners. (As a general rule, the distinction between major and small household appliances is that the former require installation while the latter do not.) Work includes *most of the following*: Checks operation of appliance by sight and sound, using test meters to locate and isolate trouble area; as required disassembles appliance and examines mechanical and electrical parts; traces electrical circuits, following diagram, and locates trouble; cleans and washes parts; replaces worn or defective parts; repairs and adjusts appliance motors; reassembles appliance; and lubricates moving parts. May

install appliances and test for satisfactory operations. Includes only qualified technicians servicing consumer products and does not include learners or apprentices assigned to assist technicians. Does *not* include repairers of central air conditioning units or repairers of radios or television sets. Also, excludes those who principally repair such smaller items as sewing machines, vacuum cleaners, shavers, etc., and those who work exclusively on heavy industrial equipment.

For wage study purposes, workers were classified as follow:

Full-time

Inside (bench)
Outside (home repair)
Combination

Part-time

Inside (bench)
Outside (home repair)
Combination

Electrical Appliance Technician, Apprentice

(6156: Household appliance and power-tool repairer)

Assists in the installation or repair of major electrical appliances (except radio and television sets) under direction of qualified technician or other supervisor, while in a learning or apprenticeship (either formal or informal) period.

Full-time
Part-time

NOTE: In establishments where technicians or their apprentices matched the duties in the job descriptions but could not be identified as electrical appliance or television-radio workers, such workers were classified as service technicians and apprentices.

Industry Wage Surveys

The most recent reports providing occupational wage data for industries currently included in the Bureau's program of industry wage surveys are listed below. Copies are for sale from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, or from any of its regional offices, and from the regional offices of the Bureau of Labor Statistics shown on the inside back cover. Bulletins that are out of stock are available for reference at leading public, college, or university libraries, or at the Bureau's Washington or regional sales offices.

Manufacturing

Basic Iron and Steel, 1978-1979. BLS Bulletin 2064
Cigarette Manufacturing, 1981. BLS Bulletin 2132
Corrugated and Solid Fiber Boxes, 1981. BLS Bulletin 2138
Drug Manufacturing, 1978. BLS Bulletin 2077
Fabricated Structural Metals, 1979. BLS Bulletin 2094
Flour and Other Grain Mill Products, 1977. BLS Bulletin 2026
Hosiery, 1981. BLS Bulletin 2151
Industrial Chemicals, 1981. BLS Bulletin 2136
Iron and Steel Foundries, 1979. BLS Bulletin 2085
Machinery Manufacturing, 1981. BLS Bulletin 2124
Meat Products, 1979. BLS Bulletin 2082
Men's and Boys' Shirts and Nightwear, 1981. BLS Bulletin 2131
Men's and Boys' Suits and Coats, 1979. BLS Bulletin 2073
Men's and Women's Footwear, 1980. BLS Bulletin 2118
Millwork, 1979. BLS Bulletin 2083
Miscellaneous Plastics Products, 1979. BLS Bulletin 2103
Motor Vehicles and Parts, 1973-74. BLS Bulletin 1912

Nonferrous Metals, 1981. BLS Bulletin 2167
Petroleum Refining, 1981. BLS Bulletin 2143
Pressed or Blown Glass and Glassware, 1980. BLS Bulletin 2109
Pulp, Paper, and Paperboard Mills, 1982. BLS Bulletin 2180
Semiconductors, 1977. BLS Bulletin 2021
Shipbuilding and Repairing, 1981. BLS Bulletin 2161
Structural Clay Products, 1980. BLS Bulletin 2139
Synthetic Fibers, 1981. BLS Bulletin 2150
Textile Mills and Textile Dyeing and Finishing Plants, 1980. BLS Bulletin 2122
Women's and Misses' Dresses, 1977. BLS Bulletin 2007
Wood Household Furniture, 1979. BLS Bulletin 2087

Nonmanufacturing

Appliance Repair Shops, 1981. BLS Bulletin 2177
Auto Dealer Repair Shops, 1978. BLS Bulletin 2060
Banking, 1980. BLS Bulletin 2099
Bituminous Coal Mining, 1976. BLS Bulletin 1999
Certificated Air Carriers, 1980. BLS Bulletin 2129
Communications, 1980. BLS Bulletin 2126
Computer and Data Processing Services, 1982. Bulletin 2184
Contract Cleaning Services, 1981. BLS Bulletin 2152
Contract Construction, 1973. BLS Bulletin 1911
Department Stores, 1981. BLS Bulletin 2147
Electric and Gas Utilities, 1978. BLS Bulletin 2040
Hospitals and Nursing Homes, 1978. BLS Bulletin 2069
Hotels and Motels, 1978. BLS Bulletin 2055
Life Insurance, 1980. BLS Bulletin 2119
Metal Mining, 1977. BLS Bulletin 2017
Nursing and Personal Care Facilities, 1981. BLS Bulletin 2142
Oil and Gas Extraction, 1977. BLS Bulletin 2014
Savings and Loan Associations, 1980. BLS Bulletin 2106

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